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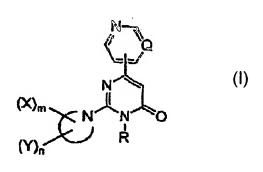
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[Continued on next page]

(54) Title: 2, 3, 6-TRISUBSTITUTED-4-PYRIMIDONE DERIVATIVES



(57) Abstract: A pyrimidone derivative having tau protein kinase 1 inhibitory activity which is represented by formula (I) or a salt thereof, or a solvate thereof or a hydrate thereof; useful for prventive and/or therapeutic treatment of diseass such as neurodegenerative diseases (e.g. Alzheimer disease); wherein Q represents CH or nitrogen atom; R represents a C₁-C₁₂ alkyl group; the ring of Formula (I): represents piperazine ring or piperidine ring; each X independently represents a C1-C8 alkyl group, an optionally partially hydrogenated C6-C10 aryl ring, an indan ring or the like; m represents an integer of 1 to 3; each Y independently represents a halogen atom, a hydroxy group, a cyano group, a C1-C6 alkyl group or the like; n represents an integer of 0 to 8; when X and Y or two Y groups are attached on the same carbon atom, they may combine to each other to form a C2-C6 alkylene group.





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DESCRIPTION

2,3,6-TRISUBSTITUTED -4-PYRIMIDONE DERIVATIVES

Technical Field

The present invention relates to compounds that are useful as an active ingredient of a medicament for preventive and/or therapeutic treatment of diseases mainly caused by abnormal activity of tau protein kinase 1, such as neurodegenerative diseases (e.g. Alzheimer disease).

Background Art

Alzheimer disease is progressive senile dementia, in which marked cerebral cortical atrophy is observed due to degeneration of nerve cells and decrease of nerve cell number. Pathologically, numerous senile plaques and neurofibrillary tangles are observed in brain. The number of patients has been increased with the increment of aged population, and the disease arises a serious social problem. Although various theories have been proposed, a cause of the disease has not yet been elucidated. Early resolution of the cause has been desired.

It has been known that the degree of appearance of two characteristic pathological changes of Alzheimer disease well correlates to the degree of intellectual dysfunction. Therefore, researches have been conducted from early 1980's to reveal the cause of the disease through molecular level investigations of components of the two pathological changes. Senile plaques accumulate extracellularly, and β amyloid protein has been elucidated as their main component (abbreviated as "A β " hereinafter in the specification: Biochem. Biophys. Res. Commun., 120, 855 (1984); EMBO J., 4, 2757 (1985); Proc. Natl. Acad. Sci. USA, 82, 4245 (1985)). In the other pathological change, i.e., the neurofibrillary tangles, a double-helical filamentous substance called paired helical filament (abbreviated

as "PHF" hereinafter in the specification) accumulate intracellularly, and tau protein, which is a kind of microtubule-associated protein specific for brain, has been revealed as its main component (Proc. Natl. Acad. Sci. USA, 85, 4506 (1988); Neuron, 1, 827 (1988)).

Furthermore, on the basis of genetic investigations, presentlins 1 and 2 were found as causative genes of familial Alzheimer disease (Nature, 375, 754 (1995); Science, 269, 973 (1995); Nature. 376, 775 (1995)), and it has been revealed that presence of mutants of presentlins 1 and 2 promotes the secretion of A β (Neuron, 17, 1005 (1996); Proc. Natl. Acad. Sci. USA, 94, 2025 (1997)). From these results, it is considered that, in Alzheimer disease, A β abnormally accumulates and agglomerates due to a certain reason, which engages with the formation of PHF to cause death of nerve cells. It is also expected that extracellular outflow of glutamic acid and activation of glutamate receptor responding to the outflow may possibly be important factors in an early process of the nerve cell death caused by ischemic cerebrovascular accidents (Sai-shin Igaku [Latest Medicine], 49, 1506 (1994)).

It has been reported that kainic acid treatment that stimulates the AMPA receptor, one of glutamate receptor, increases mRNA of the amyloid precursor protein (abbreviated as "APP" hereinafter in the specification) as a precursor of A β (Society for Neuroscience Abstracts, 17, 1445 (1991)), and also promotes metabolism of APP (The Journal of Neuroscience, 10, 2400 (1990)). Therefore, it has been strongly suggested that the accumulation of A β is involved in cellular death due to ischemic cerebrovascular disorders. Other diseases in which abnormal accumulation and agglomeration of A β are observed include, for example, Down syndrome, cerebral bleeding due to solitary cerebral amyloid angiopathy, Lewy body disease (Shin-kei Shinpo [Nerve Advance], 34, 343 (1990); Tanpaku-shitu Kaku-san Koso [Protein, Nucleic Acid, Enzyme], 41, 1476 (1996)) and the like. Furthermore, as diseases showing neurofibrillary tangles due to the PHF accumulation, examples

include progressive supranuclear palsy, subacute sclerosing panencephalitic parkinsonism, postencephalitic parkinsonism, pugilistic encephalitis, Guam parkinsonism-dementia complex, Lewy body disease and the like (Tanpakushitu Kakusan Koso [Protein, Nucleic Acid, Enzyme], 36, 2 (1991); Igaku no Ayumi [Progress of Medicine], 158, 511 (1991); Tanpakushitu Kakusan Koso [Protein, Nucleic Acid, Enzyme], 41, 1476 (1996)).

The tau protein is generally composed of a group of related proteins that forms several bands at molecular weights of 48-65 kDa in SDS-polyacrylamide gel electrophoresis, and it promotes the formation of microtubules. It has been verified that tau protein incorporated in the PHF in the brain suffering from Alzheimer disease is abnormally phosphorylated compared with usual tau protein (J. Biochem., 99, 1807 (1986); Proc. Natl. Acad. Sci. USA, 83, 4913 (1986)). An enzyme catalyzing the abnormal phosphorylation has been isolated. The protein was named as tau protein kinase 1 (abbreviated as "TPK1" hereinafter in the specification), and its physicochemical properties have been elucidated (Seikagaku [Biochemistry], 64, 308 (1992); J. Biol. Chem., 267, 10897 (1992)). Moreover, cDNA of rat TPK1 was cloned from a rat cerebral cortex cDNA library based on a partial amino acid sequence of TPK1, and its nucleotide sequence was determined and an amino acid sequence was deduced (Japanese Patent Un-examined Publication [Kokai] No. 6-239893/1994). As a result, it has been revealed that the primary structure of the rat TPK1 corresponds to that of the enzyme known as rat GSK-3 β (glycogen synthase kinase 3β , FEBS Lett., 325, 167 (1993)).

It has been reported that A β , the main component of senile plaques, is neurotoxic (Science, 250, 279 (1990)). However, various theories have been proposed as for the reason why A β causes the cell death, and any authentic theory has not yet been established. Takashima et al. observed that the cell death was caused by A β treatment of fetal rat hippocampus primary culture system, and then found that the TPK1 activity was increased by A β treatment and the cell death by

A β was inhibited by antisense of TPK1 (Proc. Natl. Acad. Sci. USA, 90, 7789 (1993);

Japanese Patent Un-examined Publication [Kokai] No. 6-329551/1994).

In view of the foregoing, compounds which inhibit the TPK1 activity may possibly suppress the neurotoxicity of A β and the formation of PHF and inhibit the nerve cell death in the Alzheimer disease, thereby cease or defer the progress of the disease. The compounds may also be possibly used as a medicament for therapeutic treatment of ischemic cerebrovascular disorder, Down syndrome, cerebral amyloid angiopathy, cerebral bleeding due to Lewy body disease and the like by suppressing the cytotoxicity of A β . Furthermore, the compounds may possibly be used as a medicament for therapeutic treatment of neurodegenerative diseases such as progressive supranuclear palsy, subacute sclerosing panencephalitic parkinsonism, postencephalitic parkinsonism, pugilistic encephalitis, Guam parkinsonism-dementia complex, Lewy body disease, Pick's disease, corticobasal degeneration, frontotemporal dementia, vascular dementia, acute stroke and traumatic injuries, brain and spinal cord trauma, peripheral neuropathies, retinopathies and glaucoma; non-insulin dependent diabetes (such as diabetes type II), and obesity, manic depressive illness, schizophrenia, alopecia, cancers such as breast cancer, non-small cell lung carcinoma, thyroid cancer, T or B-cell leukemia and several virus-induced tumors.

As structurally similar compounds to the compounds of the present invention represented by formula (I) described later, compounds represented by the following formula (A) are known:

wherein R represents 2,6-dichlorobenzyl group, 2-(2-chlorophenyl)ethylamino group, 3-phenylpropylamino group, or 1-methyl-3-phenylpropylamino group (WO98/24782). The compounds represented by formula (A) are characterized to have 4-fluorophenyl group at the 5-position of the pyrimidine ring and a hydroxy group at the 4-position, and not falling within the scope of the present invention. Moreover, main pharmacological activity of the compounds represented by formula (A) is anti-inflammatory effect, whereas the compounds of the present invention represented by formula (I) are useful as a TPK1 inhibitor or a medicament for therapeutic treatment of neurodegenerative diseases, and therefore, their pharmacological activities are totally different to each other.

Patent Document 1: WO 00/18758

Patent Document 2: WO 01/70728

Patent Document 3: WO 01/70729

Disclosure of the Invention

An object of the present invention is to provide compounds useful as an active ingredient of a medicament for preventive and/or therapeutic treatment of diseases such as Alzheimer disease. More specifically, the object is to provide novel compounds useful as an active ingredient of a medicament that enables radical prevention and/or treatment of the neurodegenerative diseases such as Alzheimer disease by inhibiting the TPK1 activity to suppress the neurotoxicity of A β and the formation of the PHF and by inhibiting the death of nerve cells.

In order to achieve the foregoing object, the inventors of the present invention conducted screenings of various compounds having inhibitory activity against the phosphorylation of TPK1. As a result, they found that compounds represented by the following formula (I) had the desired activity and were useful as an active ingredient of a medicament for preventive and/or therapeutic treatment of

the aforementioned diseases. The present invention was achieved on the basis of these findings.

The present invention thus provides 3-substituted-4-pyrimidone derivatives represented by formula (I) or salts thereof, or solvates thereof or hydrates thereof:

$$(X)_{m} \xrightarrow{N} \stackrel{N}{\underset{R}{\bigvee}} O$$

$$(Y)_{n} \stackrel{(X)_{m}}{\underset{R}{\bigvee}} O$$

wherein Q represents CH or nitrogen atom;

R represents a C_1 - C_{12} alkyl group which may be substituted; the ring of:



represents piperazine ring or piperidine ring;

each X independently represents

$$X^1 - X^2 -$$

wherein X¹ represents an oxo group; a C¹-C² alkyl group which may be substituted; a C³-C² cycloalkyl group which may be substituted; an optionally partially hydrogenated C²-C¹0 aryl ring which may be substituted; an indan ring which may be substituted; an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and having 5 to 10 ring-constituting atoms in total; an aralkyloxy group; a group represented by -N(Ra)(Rb) wherein Ra and Rb are the same or different and each is hydrogen, a C¹-C² alkyl group which may be substituted, an aralkyl group which may be substituted, an aryl group which may be substituted, C¹-C² alkylcarbonyl group which may be

substituted,

C3-C8 cycloalkylcarbonyl group which may be substituted, aralkycarbonyl group which may be substituted, C6-C10 arylcarbonyl group which may be substituted, C1-C8 alkysulfonyl group which may be substituted, C3-C8 cycloalkylsulfonyl group which may be substituted, aralkysulfonyl group which may be substituted, C6-C10 arylsulfonyl group which may be substituted, C1-C8 alkyloxycarbonyl group which may be substituted, C3-C8 cycloalkyloxycarbonyl group which may be substituted, aralkyoxycarbonyl group which may be substituted, aralkyoxycarbonyl group which may be substituted, C6-C10 aryloxycarbonyl group which may be substituted, aminocarbonyl.

N-C1-C8 alkylaminocarbonyl group which may be substituted,
N, N'-C1-C8 dialkylaminocarbonyl group which may be substituted,
N-C1-C8 alkyl-N'-C3-C8 cycloalkylaminocarbonyl group which may be substituted,
N-C1-C8 alkyl-N'-aralkylaminocarbonyl group which may be substituted,
N-C1-C8 alkyl-N'-C6-C10 arylaminocarbonyl group which may be substituted,
C3-C8 cycloalkylaminocarbonyl group which may be substituted,
N,N'-C3-C8 dicycloalkylaminoycarbonyl group which may be substituted,
N-C3-C8 cycloalkyl-N'-aralkylaminocarbonyl group which may be substituted,
N-C3-C8 cycloalkyl-N'-C6-C10 arylaminocarbonyl group which may be substituted,
aralkylaminocarbonyl group which may be substituted,
N,N'-diaralkylaminocarbonyl group which may be substituted,
N-aralkyl- N'-C6-C10 arylaminocarbonyl group which may be substituted,

or an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected

C₆-C₁₀ arylaminocarbonyl group which may be substituted.

N,N'-C6-C10 diarylaminocarbonyl group which may be substituted,

from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and having 5 to 10 ring-constituting atoms in total; or Ra and Rb together with the adjacent nitrogen atom form a 4 to 7 membered heterocyclic ring which may further contain 1 to 4 groups selected from an oxygen atom, a sulfur atom, N-Rc (wherein Rc represents a hydrogen atom, a C1-C4 alkyl group which may be substituted, an aralkyl group which may be substituted, C3-C8 cycloalkyl group which may be substituted or an aryl group which may be substituted, C₁-C₈ alkylcarbonyl group which may be substituted, C₃-C₈ cycloalkylcarbonyl group which may be substituted, aralkycarbonyl group which may be substituted, C₆-C₁₀ arylcarbonyl group which may be substituted, C₁-C₈ alkysulfonyl group which may be substituted, C₃-C₈ cycloalkylsulfonyl group which may be substituted, aralkysulfonyl group which may be substituted, C₆-C₁₀ arylsulfonyl group which may be substituted, C1-C8 alkyloxycarbonyl group which may be substituted, C₃-C₈ cycloalkyloxycarbonyl group which may be substituted, aralkyoxycarbonyl group which may be substituted, C₆-C₁₀ aryloxycarbonyl group which may be substituted, aminocarbonyl, N-C₁-C₈ alkylaminocarbonyl group which may be substituted, N, N'-C1-C8 dialkylaminocarbonyl group which may be substituted, N-C1-C8 alkyl-N'-C3-C8 cycloalkylaminocarbonyl group which may be substituted,

N, N'-C₁-C₈ dialkylaminocarbonyl group which may be substituted,
N-C₁-C₈ alkyl-N'-C₃-C₆ cycloalkylaminocarbonyl group which may be substitute
N-C₁-C₈ alkyl-N'-aralkylaminocarbonyl group which may be substituted,
N-C₁-C₈ alkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted,
C₃-C₈ cycloalkylaminocarbonyl group which may be substituted,
N,N'-C₃-C₈ dicycloalkylaminoycarbonyl group which may be substituted,
N-C₃-C₈ cycloalkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C₃-C₈ cycloalkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted, aralkylaminocarbonyl group which may be substituted, N,N'-diaralkylaminocarbonyl group which may be substituted, N-aralkyl- N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted, C₆-C₁₀ arylaminocarbonyl group which may be substituted, N,N'-C₆-C₁₀ diarylaminocarbonyl group which may be substituted,

or an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and having 5 to 10 ring-constituting atoms in total),

a carbonyl group, a sulfinyl group or a sulfonyl group in the ring, and said 4 to 7 membered heterocyclic ring may optionally be fused with an aryl group which may be substituted;

X2 represents a bond, a carbonyl group, a sulfinyl group, a sulfonyl group, an oxygen atom, a sulfur atom, a C1-C4 alkylene group which may be substituted or N-Rd (Rd represents a hydrogen atom, a C1-C4 alkyl group which may be substituted, an aralkyl group which may be substituted, C3-C8 cycloalkyl group which may be substituted,
C1-C8 alkylcarbonyl group which may be substituted,
C3-C8 cycloalkylcarbonyl group which may be substituted,
aralkycarbonyl group which may be substituted,
C6-C10 arylcarbonyl group which may be substituted,
C1-C8 alkysulfonyl group which may be substituted,

C3-C8 cycloalkylsulfonyl group which may be substituted, aralkysulfonyl group which may be substituted,
C6-C10 arylsulfonyl group which may be substituted,

C1-C8 alkyloxycarbonyl group which may be substituted,
C3-C8 cycloalkyloxycarbonyl group which may be substituted,
aralkyoxycarbonyl group which may be substituted,

C₆-C₁₀ aryloxycarbonyl group which may be substituted, aminocarbonyl,

N-C₁-C₈ alkylaminocarbonyl group which may be substituted,

N, N'-C1-C8 dialkylaminocarbonyl group which may be substituted,

N-C1-C8 alkyl-N'-C3-C8 cycloalkylaminocarbonyl group which may be substituted,

N-C₁-C₈ alkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C₁-C₈ alkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted,

C₃-C₈ cycloalkylaminocarbonyl group which may be substituted,

N,N'-C3-C8 dicycloalkylaminoycarbonyl group which may be substituted,

N-C₃-C₈ cycloalkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C₃-C₈ cycloalkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted,

aralkylaminocarbonyl group which may be substituted,

N,N'-diaralkylaminocarbonyl group which may be substituted,

N-aralkyl- N'-C6-C10 arylaminocarbonyl group which may be substituted,

C₆-C₁₀ arylaminocarbonyl group which may be substituted,

N,N'-C6-C10 diarylaminocarbonyl group which may be substituted,

or an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected

from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and

having 5 to 10 ring-constituting atoms in total);

substituted or an aryl group which may be substituted,

m represents an integer of 1 to 3;

each Y independently represents a halogen atom, a hydroxy group, a cyano group, Y^1-Y^3 - wherein Y^1 represents a C_1-C_8 alkyl group which may be substituted; a C_3-C_8 cycloalkyl group which may be substituted or a C_6-C_{10} aryl ring which may be substituted; Y^3 represents a carbonyl group, a sulfinyl group, a sulfonyl group, an oxygen atom, a sulfur atom, a C_1-C_4 alkylene group which may be substituted or N-Re (Re represents a hydrogen atom, a C_1-C_4 alkyl group which may be substituted, an aralkyl group which may be substituted, C_3-C_8 cycloalkyl group which may be

C1-C8 alkylcarbonyl group which may be substituted,
C3-C8 cycloalkylcarbonyl group which may be substituted,
aralkycarbonyl group which may be substituted,
C6-C10 arylcarbonyl group which may be substituted,
C1-C8 alkysulfonyl group which may be substituted,
C3-C8 cycloalkylsulfonyl group which may be substituted,
aralkysulfonyl group which may be substituted,
C6-C10 arylsulfonyl group which may be substituted,
C1-C8 alkyloxycarbonyl group which may be substituted,
C1-C8 alkyloxycarbonyl group which may be substituted,
C3-C8 cycloalkyloxycarbonyl group which may be substituted,
aralkyoxycarbonyl group which may be substituted,
C6-C10 aryloxycarbonyl group which may be substituted,
aminocarbonyl,

N-C₁-C₈ alkylaminocarbonyl group which may be substituted,
N, N'-C₁-C₈ dialkylaminocarbonyl group which may be substituted,
N-C₁-C₈ alkyl-N'-C₃-C₈ cycloalkylaminocarbonyl group which may be substituted,
N-C₁-C₈ alkyl-N'-aralkylaminocarbonyl group which may be substituted,
N-C₁-C₈ alkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted,
C₃-C₈ cycloalkylaminocarbonyl group which may be substituted,
N,N'-C₃-C₈ dicycloalkylaminoycarbonyl group which may be substituted,
N-C₃-C₈ cycloalkyl-N'-aralkylaminocarbonyl group which may be substituted,
N-C₃-C₈ cycloalkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted,
aralkylaminocarbonyl group which may be substituted,
N,N'-diaralkylaminocarbonyl group which may be substituted,
C₆-C₁₀ arylaminocarbonyl group which may be substituted,
N,N'-C₆-C₁₀ diarylaminocarbonyl group which may be substituted,
or an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected

from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and having 5 to 10 ring-constituting atoms in total),

n represents an integer of 0 to 8;

when X and Y or two Y groups are attached on the same carbon atom, they may combine to each other to form a C_2 - C_6 alkylene group; and when m is 1, n is 0, and X is X^1 -CO-,

- (1) X does not bind to 3-position of unsubstituted 1-piperazinyl group or does not bind to 3-position of a 4-alkyl-1-piperazinyl group; or
- (2) X does not bind to 3-position or 4-position of non-substituted 1-piperidinyl group.

According to another aspect of the present invention, there is provided a medicament comprising as an active ingredient a substance selected from the group consisting of the 3-substituted-4-pyrimidone derivatives represented by formula (I) and the physiologically acceptable salts thereof, and the solvates thereof and the hydrates thereof. As preferred embodiments of the medicament, there are provided the aforementioned medicament which is used for preventive and/or therapeutic treatment of diseases caused by tau protein kinase 1 hyperactivity, and the aforementioned medicament which is used for preventive and/or therapeutic treatment of neurodegenerative diseases.

As further preferred embodiments of the present invention, there are provided the aforementioned medicament wherein the diseases are selected from the group consisting of Alzheimer disease, ischemic cerebrovascular accidents, Down syndrome, cerebral bleeding due to cerebral amyloid angiopathy, progressive supranuclear palsy, subacute sclerosing panencephalitic parkinsonism, postencephalitic parkinsonism, pugilistic encephalitis, Guam parkinsonism-dementia complex, Lewy body disease, Pick's disease, corticobasal degeneration and frontotemporal dementia, vascular dementia, acute stroke and

traumatic injuries, brain and spinal cord trauma, peripheral neuropathies, retinopathies and glaucoma, non-insulin dependent diabetes (such as diabetes type II), and obesity, manic depressive illness, schizophrenia, alopecia, cancers such as breast cancer, non-small cell lung carcinoma, thyroid cancer, T or B-cell leukemia and several virus-induced tumors; and the aforementioned medicament in the form of pharmaceutical composition containing the above substance as an active ingredient together with one or more pharmaceutical additives.

The present invention further provides an inhibitor of tau protein kinase 1 comprising as an active ingredient a substance selected from the group consisting of the 3-substituted-4-pyrimidone derivatives of formula (I) and the salts thereof, and the solvates thereof and the hydrates thereof.

According to further aspects of the present invention, there are provided a method for preventive and/or therapeutic treatment of diseases caused by tau protein kinase 1 hyperactivity, which comprises the step of administering to a patient a preventively and/or therapeutically effective amount of a substance selected from the group consisting of the 3-substituted-4-pyrimidone derivatives of formula (I) and the physiologically acceptable salts thereof, and the solvates thereof and the hydrates thereof; and a use of a substance selected from the group consisting of the 3-substituted-4-pyrimidone derivatives of formula (I) and the physiologically acceptable salts thereof, and the solvates thereof and the hydrates thereof for the manufacture of the aforementioned medicament.

Best Mode for Carrying Out the Invention

In the present specification, each group has the following meanings.

The alkyl group used herein may be either linear or branched.

The C₁-C₁₂ alkyl group represented by R may be, for example, methyl group, ethyl group, n-propyl group, isopropyl group, n-butyl group, isobutyl group, sec-butyl group, tert-butyl group, n-pentyl group, isopentyl group, neopentyl group,

1,1-dimethylpropyl group, n-hexyl group, isohexyl group, or a linear or branched heptyl group, octyl group, nonyl group, decyl group, undecyl group or dodecyl group. Particularly preferred R is methyl group.

In the specification, when a functional group is defined as "which may be substituted" or "optionally substituted", the number of substituents as well as their types and substituting positions are not particularly limited, and when two or more substituents are present, they may be the same or different.

When the C_1 - C_{12} alkyl group represented by R has one or more substituents, the alkyl group may have one or more substituents selected from, for example, the groups consisting of a C_3 - C_8 cycloalkyl group such as cyclopropyl group, cyclobutyl group, cyclopentyl group, cyclohexyl group, cyclohexyl group, cycloheptyl group, cycloctyl group; a C_1 - C_5 alkoxy group such as methoxy group, ethoxy group, propoxy group, isopropoxy group, butoxy group, isobutoxy group, tert-butoxy group; C_1 - C_3 alkylamino group or C_2 - C_6 dialkylamino group; a C_6 - C_{10} aryl group such as phenyl group, 1-naphthyl group, and 2-naphthyl group.

The C₁-C₈ alkyl group may be, for example, methyl group, ethyl group, n-propyl group, isopropyl group, n-butyl group, isobutyl group, sec-butyl group, tert-butyl group, n-pentyl group, isopentyl group, neopentyl group, 1,1-dimethylpropyl group, n-hexyl group, isohexyl group, or a linear or branched heptyl group or octyl group.

The C₁-C₄ alkyl group may be, for example, methyl group, ethyl group, n-propyl group, isopropyl group, n-butyl group, isobutyl group, sec-butyl group or tert-butyl group.

The C₃-C₈ cycloalkyl group may be, for example, cyclopropyl group, cyclobutyl group, cyclopentyl group, cyclohexyl group, cycloheptyl group or cycloctyl group.

The optionally partially hydrogenated C_6 - C_{10} aryl ring may be, for example a benzene ring, a naphthalene ring, an indan ring or a

1,2,3,4-tetrahydronaphthalene ring.

The heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and having 5 to 10 ring-constituting atoms in total may be, for example, furan ring, dihydrofuran ring, tetrahydrofuran ring, pyran ring, dihydropyran ring, tetrahydropyran ring, benzofuran ring, dihydrobenzofuran, isobenzofuran ring, benzodioxol ring, chromene ring, chroman ring, isochroman ring, thiophene ring, benzothiophene ring, pyrrole ring, pyrrolidine ring, 2-oxopyrrolidine ring, imidazole ring, imidazoline ring, imidazolidine ring, pyrazole ring, pyrazoline ring, pyrazolidine ring, triazole ring, tetrazole ring, pyridine ring, pyridine oxide ring, piperidine ring, 4-oxopiperidine ring, pyrazine ring, piperazine ring, homopiperazine ring, pyrimidine ring, pyridazine ring, indole ring, indoline ring, isoindole ring, isoindoline ring, indazole ring, benzimidazole ring, benzotriazole .ring, tetrahydroisoquinoline ring, benzothiazolinone ring, benzoxazolinone ring, purine ring, quinolizine ring, quinoline ring, phthalazine ring, naphthyridine ring, quinoxaline ring, quinazoline ring, cinnoline ring, pteridine ring, oxazole ring, oxazolidine ring, isoxazole ring, isoxazolidine ring, oxadiazole ring, thiazole ring, benzothiazole ring, thiazylidine ring, isothiazole ring, isothiazolidine ring, benzodioxole ring, dioxane ring, benzodioxane ring, dithian ring, morpholine ring, thiomorpholine ring, or phthalimide ring.

The aralkyl group may be, for example, benzyl group, 2-phenylethyl group, 3-phenylpropyl group or 4-phenylbutyl group.

The C₁-C₄ alkylene group may be, for example, methylene, ethylene, trimethylene or tetramethylene.

The 4 to 7 membered heterocyclic ring which may further contain 1 to 4 groups may be, for example, pyrrolidine, piperidine, morpholine, thiomorpholine, piperazine, homopiperazine, 2-oxopyrrolidine, pyrrole, imidazoline, imidazole, pyrazole, pyrroline, pyrrolidine, imidazolidine, imidazolone, succinimide or

glutarimide.

The C_6 - C_{10} aryl ring may be, for example, a benzene ring or a naphthalene ring, and the aryl group or the C_6 - C_{10} aryl group may be, for example, a phenyl group or naphthyl group.

When the ring represented by $\mathbb X$ or $\mathbb X^1$ has one or more substituents, the ring may have one or more substituents selected from the group consisting of a C1-C5 alkyl group such as methyl group, ethyl group, propyl group, isopropyl group, butyl group, isobutyl group, sec-butyl group, tert-butyl group, pentyl group, isopentyl group, neopentyl group, 1,1-dimethylpropyl group; C3-C6 cycloalkyl group such as cyclopropyl group, cyclobutyl group, cyclopentyl group, cyclohexyl group; a C₃-C₆ cycloalkyl-C₁-C₄ alkyl group such as cyclopropylmethyl, cyclopentylmethyl, cyclohexylmethyl; a C1-C4 hydroxyalkyl group such as hydroxymethyl, hydroxyethyl, hydroxypropyl; a halogen atom such as fluorine atom, chlorine atom, bromine atom, and iodine atom; a C1-C5 halogenated alkyl group such as trifluoromethyl group; hydroxyl group; cyano group; nitro group; formyl group; a benzene ring which may be substituted; a naphthalene ring which may be substituted; an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom and nitrogen atom, and having 5 to 10 ring-constituting atoms in total (same as the above); an amino group; an N- C3-C6 cycloalkyl-N-C1-C4 alkylaminoalkyl group wherein said C1-C4 alkyl may be substituted by hydroxy group or C1-C4 alkoxy group such as N-cyclopropyl-N-methylaminomethyl group, N-cyclohexyl-N-methylaminomethyl group; a C1-C5 monoalkylaminomethyl group such as methylaminomethyl group, ethylaminomethyl group, propylaminomethyl group, isoproylaminomethyl group, butylaminomethyl group, isobutylaminomethyl group, tert-butylaminomethyl group, pentylaminomethyl group, isopentylaminomethyl group; a C2-C10 dialkylaminomethyl group such as dimethylaminomethyl group, diethylaminomethyl group, ethylmethylaminomethyl group,

methylpropylaminomethyl group; pyrrolidinylmethyl group; piperidinylmethyl group; morpholinomethyl group; piperazinylmethyl group; pyrrolylmethyl group; imidazolylmethyl group; pyrazolylmethyl group; triazolylmethyl group; and a group of the formula -E-Rf wherein E represents O, S, SO, SO2, CO or N(R4) and Rf represents a C_1 - C_5 alkyl group (same as the above), a C_4 - C_7 cycloalkyl group (same as the above), a C4-C7 cycloalkylalkl group (same as the above), a C1-C5. hydroxyalkyl group (same as the above), a benzene ring which may be substituted, a naphthalene ring which may be substituted, an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom and nitrogen atom, and having 5 to 10 ring-constituting atoms in total (same as the above), an N-C3-C6 cycloalkyl-N-C1-C4 alkylaminoalkyl group (same as the above), a C1-C5 monoalkylaminoalkyl group (same as the above), C2-C10 dialkylaminoalkyl group (same as the above), pyrrolidinylmethyl group, piperidinylmethyl group, morpholinomethyl group, piperazinylmethyl group, pyrrolylmethyl group, imidazolylmethyl group, pyrazolylmethyl group or triazolylmethyl group,

C1-C8 alkylcarbonyl group which may be substituted,
C3-C8 cycloalkylcarbonyl group which may be substituted,
aralkycarbonyl group which may be substituted,
C6-C10 arylcarbonyl group which may be substituted,
C1-C8 alkysulfonyl group which may be substituted,
C3-C8 cycloalkylsulfonyl group which may be substituted,
aralkysulfonyl group which may be substituted,
C6-C10 arylsulfonyl group which may be substituted,
C1-C8 alkyloxycarbonyl group which may be substituted,
C1-C8 alkyloxycarbonyl group which may be substituted,
C3-C8 cycloalkyloxycarbonyl group which may be substituted,
aralkyoxycarbonyl group which may be substituted,
C6-C10 aryloxycarbonyl group which may be substituted,

aminocarbonyl,

N-C₁-C₈ alkylaminocarbonyl group which may be substituted,

N, N'-C1-C8 dialkylaminocarbonyl group which may be substituted,

N-C1-C8 alkyl-N'-C3-C8 cycloalkylaminocarbonyl group which may be substituted,

N-C1-C8 alkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C1-C8 alkyl-N'-C6-C10 arylaminocarbonyl group which may be substituted,

C₃-C₈ cycloalkylaminocarbonyl group which may be substituted,

N,N'-C3-C8 dicycloalkylaminoycarbonyl group which may be substituted,

N-C₃-C₈ cycloalkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C₃-C₈ cycloalkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted,

aralkylaminocarbonyl group which may be substituted,

N;N'-diaralkylaminocarbonyl group which may be substituted,

N-aralkyl- N'-C6-C10 arylaminocarbonyl group which may be substituted,

C6-C10 arylaminocarbonyl group which may be substituted,

N,N'-C6-C10 diarylaminocarbonyl group which may be substituted,

and R4 represents a hydrogen atom, a C1-C4 alkyl group which may be substituted,

an aralkyl group which may be substituted, C3-C8 cycloalkyl group which may be

substituted or an aryl group which may be substituted,

C₁-C₈ alkylcarbonyl group which may be substituted,

C₃-C₈ cycloalkylcarbonyl group which may be substituted,

aralkycarbonyl group which may be substituted,

C₆-C₁₀ arylcarbonyl group which may be substituted,

C1-C8 alkysulfonyl group which may be substituted,

C₃-C₈ cycloalkylsulfonyl group which may be substituted,

aralkysulfonyl group which may be substituted,

C₆-C₁₀ arylsulfonyl group which may be substituted,

C₁-C₈ alkyloxycarbonyl group which may be substituted,

C₃-C₈ cycloalkyloxycarbonyl group which may be substituted,

aralkyoxycarbonyl group which may be substituted, C6-C10 aryloxycarbonyl group which may be substituted, aminocarbonyl,

N-C1-C8 alkylaminocarbonyl group which may be substituted, N, N'-C1-C8 dialkylaminocarbonyl group which may be substituted, N-C1-C8 alkyl-N'-C3-C8 cycloalkylaminocarbonyl group which may be substituted, N-C1-C8 alkyl-N'-aralkylaminocarbonyl group which may be substituted, N-C1-C8 alkyl-N'-C6-C10 arylaminocarbonyl group which may be substituted, C3-C8 cycloalkylaminocarbonyl group which may be substituted, N,N'-C3-C8 dicycloalkylaminoycarbonyl group which may be substituted, N-C3-C8 cycloalkyl-N'-aralkylaminocarbonyl group which may be substituted, N-C3-C8 cycloalkyl-N'-C6-C10 arylaminocarbonyl group which may be substituted, aralkylaminocarbonyl group which may be substituted. N,N'-diaralkylaminocarbonyl group which may be substituted, N-aralkyl- N'-C6-C10 arylaminocarbonyl group which may be substituted, C6-C10 arylaminocarbonyl group which may be substituted, N,N'-C6-C10 diarylaminocarbonyl group which may be substituted, or an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and having 5 to 10 ring-constituting atoms in total.

When the C₆-C₁₀ aryl ring represented by Y¹ has one or more substituents, the ring may be substituted by one or more substituents selected from the groups consisting of halogen atoms, a C₁-C₅ alkyl group, a C₃-C₆ cycloalkyl group, a C₃-C₆ cycloalkyloxy group, a C₁-C₅ alkoxy group, a C₄-C₇ cycloalkylalkoxy, a C₁-C₅ alkylthio group, a C₁-C₅ alkylsulfonyl group, a C₁-C₅ halogenated alkyl, and a benzene ring.

When the ring represented by X, X^1 or Y^1 has one or more substituents, the substituent may further have one or more substituents selected from the group

consisting of a C1-C5 alkyl group such as methyl group, ethyl group, propyl group, isopropyl group, butyl group, isobutyl group, sec-butyl group, tert-butyl group, pentyl group, isopentyl group, neopentyl group, 1,1-dimethylpropyl group; C3-C6 cycloalkyl group such as cyclopropyl group, cyclobutyl group, cyclopentyl group, cyclohexyl group; a C3-C6 cycloalkyloxy group such as cyclopropyloxy group, cyclobutyloxy group, cyclopentyloxy group, cyclohexyloxy group; C1-C4 hydroxyalkyl group such as hydroxymethyl group, hydroxyethyl group, hydroxypropyl group, hydroxybutyl group; a C1-C5 alkoxy group such as methoxy group, ethoxy group, propoxy group, isopropoxy group, butoxy group, isobutoxy group, tert-butoxy group, pentyloxy group, and isopentyloxy group; a C4-C7 cycloalkylalkoxy group such as cyclopropylmethoxy group, cyclopentylmethoxy group; a C1-C5 alkylthio group such as methylthio group, ethylthio group, propylthio group, butylthio group, and pentylthio group; a C1-C5 alkylsulfonyl group such as methanesulfonyl group, ethanesulfonyl group, propanesulfonyl group, butanesulfonyl group, and pentanesulfonyl group; a halogen atom such as fluorine atom, chlorine atom, bromine atom, and iodine atom; a C1-C5 halogenated alkyl group such as trifluoromethyl group; a C1-C5 halogenated alkoxy group such as trifluoromethoxy group, 2,2,2-trifluoroethoxy group; hydroxyl group; cyano group; nitro group; formyl group; a C2-C6 alkylcarbonyl group such as acetyl group, propionyl group, butyryl group, and valeryl group; amino group; a C1-C5 monoalkylamino group such as methylamino group, ethylamino group, propylamino group, isopropylamino group, butylamino group, isobutylamino group, tert-butylamino group, pentylamino group, and isopentylamino group; a C2-C10 dialkylamino group such as dimethylamino group, ethylmethylamino group, diethylamino group, methylpropylamino group, and diisopropylamino group; a cyclic amino group such as pyrrolidinyl group, piperidino group, morpholino group; a C2-C10 monoalkylaminomethyl group such as methylaminomethyl group, ethylaminomethyl group, propylaminomethyl group, isoproylaminomethyl group, butylaminomethyl group, isobutylaminomethyl group,

tert-butylaminomethyl group, pentylaminomethyl group, isopentylaminomethyl; a C₃-C₁₁ dialkylaminomethyl group such as dimethylaminomethyl group, diethylaminomethyl group, ethylmethylaminomethyl group, methylpropylaminomethyl group; a phenyl group; an aralkyloxy group such as benzyloxy, 2-phenylethyloxy, 3-phenylpropyloxy; an aralkyloxycarbonyl group such as benzyloxycarbonyl, 2-phenylehoxycarbonyl; an C2-C4 alkanoyloxy-C1-C4 alkyl group such as acetyloxymethyl, 2-acetyloxyethyl, 2-propionyloxyethyl; an alkanoylamino group such as acetylamino, propionylamino, butyrylamino; N-C1-C4 alkyl-N-alkanoylamino group such as N-methyl-N-acetylamino, N-ethyl-N-acetylamino, N-methyl-N-propionylamino, N-methyl-N-butyrylamino; a heterocyclic ring amino group such as pyridylamino, pyrimidinylamino, thienylamino, furylamino; N-C1-C4 alkyl-N-heterocyclic ring amino group such as N-methyl-N-pyridylamino, N-methyl-N-pyrimidinylamino, N-methyl-N-thienylamino, N-methyl-N-furylamino; a diheterocyclic ring amino group such as dipyridylamino, dipyrimidinylamino, dithienylamino, difurylamino, and the like.

R may preferably be a C_1 - C_3 alkyl group, more preferably a methyl group or an ethyl group. The substituent of the alkyl group may preferably be a C_3 - C_8 alkyl group.

X may preferably be a benzene ring which may be substituted, a benzyl group which may be substituted, a naphthyl group which may be substituted, a benzofuran ring which may be substituted, a dihydrobenzofuran ring which may be substituted, a benzisoxazole ring which may be substituted, a benzisoxazole ring which may be substituted, a benzisothiazole ring which may be substituted, a benzisothiazole ring which may be substituted, a benzisothiazole ring which may be substituted, and a benzopyrazole ring which may be substituted; more preferably a benzene ring which may be substituted, a benzyl group which may be substituted. Substituted of X may preferably be selected from the group consisting of a halogen

atom, a C₁-C₄ alkyl group, a C₁-C₄ alkoxy group, a hydroxy group, a nitro group, a cyano group, a perhalogenated C₁-C₄ alkyl group, a carboxyl group, a C₁-C₄ alkoxycarbonyl group, a C₁-C₄ alkylthio group, a C₁-C₄ alkoxysulfonyl group, amino group which may be substituted by a C₁-C₄ alkyl group, a benzene ring which may be substituted, and a cyclic amino group which may be substituted.

The compounds represented by the aforementioned formula (I) may form a salt. Examples of the salt include, when an acidic group exists, salts of alkali metals and alkaline earth metals such as lithium, sodium, potassium, magnesium, and calcium; salts of ammonia and amines such as methylamine, dimethylamine, trimethylamine, dicyclohexylamine, tris(hydroxymethyl)aminomethane, N.N-bis(hydroxyethyl)piperazine, 2-amino-2-methyl-1-propanol, ethanolamine, N-methylglucamine, and L-glucamine; or salts with basic amino acids such as lysine, δ-hydroxylysine, and arginine. When a basic group exists, examples include salts with mineral acids such as hydrochloric acid, hydrobromic acid, sulfuric acid, nitric acid, phosphoric acid; salts with organic acids such as methanesulfonic acid, benzenesulfonic acid, p-toluenesulfonic acid, acetic acid, propionic acid, tartaric acid, fumaric acid, maleic acid, malic acid, oxalic acid, succinic acid, citric acid, benzoic acid, mandelic acid, cinnamic acid, lactic acid, glycolic acid, glucuronic acid, ascorbic acid, nicotinic acid, and salicylic acid; or salts with acidic amino acids such as aspartic acid, and glutamic acid.

In addition to the 3-substituted-4-pyrimidone derivatives represented by the aforementioned formula (I) and salts thereof, their solvates and hydrates also fall within the scope of the present invention. The 3-substituted-4-pyrimidone derivatives represented by the aforementioned formula (I) may have one or more asymmetric carbon atoms. As for the stereochemistry of such asymmetric carbon atoms, they may independently be in either (R) and (S) configuration, and the pyrimidone derivative may exist as stereoisomers such as optical isomers, or diastereoisomers. Any stereoisomers in a pure form, any mixtures of stereoisomers,

racemates and the like fall within the scope of the present invention.

Preferred compounds of the present invention are represented by formula (II):

$$(X)_{p} \longrightarrow (Y)_{r}$$

$$(X)_{q} \longrightarrow (Y)_{r}$$

$$(X)_{q} \longrightarrow (Y)_{r}$$

$$(X)_{q} \longrightarrow (Y)_{r}$$

$$(X)_{q} \longrightarrow (Y)_{r}$$

wherein Q, R, X, Y are the same as those defined above; p is 0 or 1; q is 0 or 1; r is an integer of 0 to 6; p+q is 1 or 2;

and Z represents N or CZ1 wherein Z1 represents hydrogen atom or Y.

Examples of more preferred classes of compounds represented by formula (II) include:

- (1) those wherein R represents a C₁-C₃ alkyl group which may be substituted by a C₃-C₈ cycloalkyl group;
- (2) the compounds of the above (1) wherein R is methyl group or ethyl group; Y is in 3-, 4- or 5-position of the piperazine ring or the piperidine ring; p+q is 1; and r is an integer of 0 to 3;
- (3) the compounds of the above (2) wherein X is a C₁-C₈ alkyl group which may be substituted or a C₆-C₁₀ aryl ring which may be substituted; Y is a C₁-C₆ alkyl group which may be substituted; p is 1; q is 0; r is an integer of 0 to 3; and Z is N or CH; (4) the compounds of the above (3) wherein X is a benzene ring which may be substituted, a benzyl group which may be substituted; Y is a methyl group which may be substituted; Z is N and r is 0 or 1;
- (5) the compounds of the above (2) wherein X is a benzene ring which may be substituted, a benzyl group which may be substituted, a benzoyl group which may be substituted, or a benzisothiazol ring which may be substituted; Y is a methyl

group which may be substituted; Z is N and p is 0;

(6) the compounds of the above (2) wherein X is a C_1 - C_8 alkyl group substituted by a benzene ring which may be substituted or a benzene ring which may be substituted; Y is a hydroxy group, a cyano group, or Y1-CO- wherein Y1 is a C_1 - C_8 alkyl group; Z is CH or C-Y and r is 0 or 1; and

(7) the compounds of the above (6) wherein X is a benzyl group which may be substituted or a benzene ring which may be substituted; Y is a hydroxy group, a cyano group, or an acetyl group; Z is CH or C-Y and r is 0 or 1.

Examples of particularly preferred classes of compounds represented by formula (II) include:

- (1) those wherein R is methyl group, Y is CH₃O-CO- group or CH₃CH₂O-CO- group, Z is N, p is 0, q is 1, r is 0 or 1 and Y is in 3-position of the piperazine ring;
- (2) those wherein R is methyl group, Y is methyl group, benzyl group or acetyl group, Z is N, p is 1, q is 0, r is 0 or 1 and Y is in 4-position of the piperazine ring;
- (3) those wherein R is methyl group, Y is methyl group, Z is N, p is 1, q is 0, r is 1 to 3 and Y is in 3-, 4-, or 5-position of the piperazine ring;
- (4) those wherein R is methyl group, Y is hydroxyl group or cyano group, Z is CH, p is 1, q is 0, r is 0 or 1 and X and Y are attached on the same carbon atom;
- (5) those wherein R is methyl group, Y is hydroxyl group, cyano group or acetyl group, Z is C-Y, p is 0, q is 1 and r is 1.

Examples of preferred compounds of the present invention are shown in the tables below. However, the scope of the present invention is not limited to the following compounds.

Table-1		<u>:</u>				
		R ³ R ² N N N N N N N N N N N N N N N N N N N				
No.	R1	R2	R3	R4	R5	R6
XA1 XA2	CH3-	H	Н	CH3-	H	H
XA3	CH3-	H	Н	CH3CH2-	H	H H
XA4	CH3-	Н	н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	H	н
XA5	СН3-	н	H	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Н
XA6	снз-	н	н	L.	н .	Н
XA7	снз-	Н	н	~~`	Н	Н
XA8	CH3-	Н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н
XA9	CH3-	Н	н	^ ~\\	Н	.Н.
XA10	СН3-	Н	н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н
XA11	снз-	н	Н	X.	Н	Н
XA12	СН3-	н	Н	7	Н	Н
XA13	СН3-	Н	н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
XA14	СН3-	н	H.	Lv.	н	н
XA15	CH3-	Н	Н	^^\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Н
XA16	СН3-	Н	Н	Y \	Н	н
XA17	СН3-	Н	Н	n-C8H17-	н	Н
XA18	СН3-	Н	н	L	Н	н
XA19	снз-	Н	Н	Qi	Н	н
XA20	СН3-	н	н .		Н	н
XA21	СН3-	н	н		н .	Н
XA22	снз-	н	Н	$\triangleright \dashv$	Н	Н
XA23	СН3-	н	Н	\Diamond -1	н	Н
XA24	СН3-	н	Н	$\bigcirc \dashv$	Н	Н
XA25	снз-	Н	н	\bigcirc	н	н

No.	R1	R2	R3	R4	R5	R6
XA26	снз-	н	н		н .	н
XA27	СН3-	Н	н	△ -₁	н	Н
ХА28	снз-	Н	н	<u></u>	н	н
XA29	CH3-	Н	Н	F{}	Н	н
XA30	СН3-	н	Н	F-(-)	Н	H.
XA31	СН3-	Н	Н	CI 	Н	н
XA32	снз-	Н	Н	CI	Н	н
XA33	СН3-	Н	н	C⊢(Н	н
. XA34	СН3-	н	Н	Br →₁	Н	н
XA35	СН3-	н	н	Br.	н	Н
XA36	СН3-	н	Н	Br—∰	н	н
XA37	снз-	Н	Н		Н	н
XA38	СН3-	н	Н	<u></u>	н	н
XA39	СН3-	Н	Н	H	н	Н
XA40	снз-	н	Н	CH₃	н	Н
XA41	СН3-	н	Н	H ₃ C	н	н
XA42	СН3-	Н	н	H ₃ C-{	Н	Н
XA43	СН3-	Н	н	C ₂ H ₅ -{	Н	Н
XA44	СН3-	н	H	n-C ₃ H ₇ -{{}}-{{	Н	Н
XA45	CH3-	н	Н	n-C ₄ H ₉ {}{	Н	Н
XA46	снз-	Н	Н	OH ⊘H	н	н
XA47	СН3-	н	н	HO	н	н

No. R	1	R2 ·	R3	R4	R5	R6
XA48 C	H3-		н	HO-{\bigcirc}{}		Н
XA49 C	H3-	Н	Н	\ <u>_</u> /_}	н	Н
XA50 C	H3-	Н	H	H ₃ CO	н	H _.
XA51 C	H3-	Н	Н	H₃CO-{_}_{}	н	Н
XA52 G	Н3-	н	Н	C ₂ H ₅ O-{	н	н
XA53 C	H3-	H	Н	n-C ₃ H ₇ O-{	н	Н
XA54 C	H3-	H	Н		Н	Н
XA55 C	нз-	Н	Н	\/_3	Н	Н
XA56 C	Н3-	Н	Н	O ₂ N →	Н	Н
XA57 CI	H3-	Н	Н	•	н	Н
XA58 CI	Н3-	Н	Н	\ <u>_</u> /_}	н	Н
XA59 CI	H3-	Н	Н	NC —}	Н	Н
XA60 CI	Н3-	Н	Н		Н	н
XA61 CI	Н3-	Н	Н	\ <u>_</u> /_}	н .	H
XA62 CI	нз-	н	Н	F ₃ C	н	н
XA63 CI	Н3-	Н	H		н	Н
XA64 CI	H3-	Н	Н	(<u> </u>	Н	Н
XA65 CI	H3-	Н	Н	HOOC	Н	Н
XA66 CI	H3-	Н	Н		H .	Н
XA67 CI	H3-	Н	Н	\ <u>_</u> / _ }	Н	Н
XA68 CI	H3-	Н .	Н	MeO ₂ C	Н	Н
XA69 CI	H3-	Н	Н	MeO ₂ C-{}	н	н

No.	R1	R2	R3	R4	R5	R6
XA70	СН3-	н	н	CO₂Et	Н	н
XA71	СН3-	Н	н	EtO ₂ C	Н	н
XA72	СН3-	Н	Н	EtO ₂ C-	Н	н
XA73	СН3-	н	Н	SMe _∤	н	Н
XA74	СН3-	Н	н	MeS	Н	н
XA75	снз-	Н	н	MeS-{_}{	Н	н
XA76	СН3-	Н	Н	SO₂Me	Н	Н
XA77	снз-	Н	Н	MeO ₂ S △	Н	H
XA78	СН3-	н	н	MeO ₂ S-{{}	Н	H
XA79	СН3-	н	н	NH ₂	Н	н
XA80	СН3-	н .	н	H ₂ N	Н	Н
XA81	СН3-	н	н	H ₂ N-{	н	н
XA82	СН3-	Н	н	NMe₂	Н	Н
XA83	снз-	н	Н	Me ₂ N .	Н	н
XA84	снз-	н	н	Me ₂ N-⟨¯¯⟩{	н	н
XA85	снз-	H	н		Н	н
XA86	снз-	Н	н	CCT'	Н	н
XA87	CH3-	н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н
XA88	СН3-	Н	H .	HN	Н	н
XA89	CH3-	Н	H	O. i	Н	н
XA90	CH3-	н	н	6.J.,	н	н
XA91	снз-	Н	н	Sh	н	н

No.	R1	R2	R3	R4	R5	R6
XA92	снз-	н	н	S.J.,	Н	н
XA93	СН3	н	1	HNN	н	H
XA94	снз-	Н		HN	н	Н
XA95	СН3-	Н	1	HN /	н	Н
XA96	СН3-	н	Н	N N N	н	н
XA97	СН3-	Н	н	and,	Н	Н
XA98	снз-	н	Н	N=J,	н	н
XA99	снз-	н	Н	N-O (//	Н	н
XA100	СН3-	Н	Н	S _N	н	н.
XA101	снз-	Н	Н	N-J.,	н	Н
XA102	СН3-	н	н	N-S	н	Н
XA103	СН3-	н	н	C=N O	н	н
XA104	СН3-	Н	н	O '	н	н
XA105	CH3-	н	Н	N J	Н	Н
XA106	СН3-	Н	н	S-N S->	н	Н
XA107	СН3-	H	Н	S ,	н	Н
XA108	СН3-	Н	H	N S	Н	Н
XA109	СН3-	н	Н	CN .	н .	Н
XA110	СН3-	н .	Н	N-)ţ	н	Н.
XA111	СН3-	н	Н	N_}_{	Н	Н
XA112	снз-	Н	Н	€N-4	н	Н
XA113	СН3-	Н	Н	N_N	Н	Н

No.	R1	R2	R3	R4	R5	R6
				N=\ .		
XA114	CH3-	H	Н	N-1	H	Н
XA115	СН3-	н	н	CYN H	н	н
XA116	СН3-	Н	н		н	н
XA117	снз-	н	н		Н	н
XA118	СН3-	Н	Н	TON	Н	Н
XA119	СН3-	Н	н	,CT	Н	Н
XA120	СН3-	Н	н	Ŷì	н	н
XA121	СН3	н	Н		Н	Н
XA122	CH3-	Н	Н		н	Н
XA123	СН3-	Н	н	Ğ;	Н	Н
XA124	CH3-	Н	Н	TO:	н	Н
XA125	СН3-	Н	н		Н	Н
XA126	СН3-	Н	Н	Ţ,	Н	н
XA127	СН3-	Н	н .	CT\$-1	Н	н
XA128	CH3-	н	Н	CT)	н	H
XA129	СН3-	H	н	Ī;	н	Н
XA130	СН3-	Н	н	'CI's	н	Н
XA131	снз-	Н	Н	, CTS	н	н
XA132	СН3-	н	Н	Ţŝ	Н	Н
XA133	СН3-	н	Н	Cir	н	Н
XA134	снз-	н .	Н	CIN H	Н	н
XA135	СН3-	Н	Н	TO'N	н	Н

No.	R1	R2	R3	R4	R5	R6
XA136	снз-	н	Н	"Tin	H	Н
XA137	СН3-	н	н	Çî,	н	н
XA138	СН3-	н	Н		н	Н
XA139	снз-	Н	Н	Ž _N	н .	Н
XA140	СН3-	н	н	T N	Н	Н
XA141	СН3-	Н	н .		н	Н
XA142	СН3-	Н	Н	Č,	н	н
XA143	СН3-	Н	H	'T'N	н	Н
XA144	снз-	Н .	Н	, CIN	Н	н
XA145	снз-	н	н		Н	H
XA146	снз-	н	Н	(I)	н	н
XA147	Снз-	н	Н	Ž _s	Н	Н
XA148	снз-	Н	Н	'CI'S	H	Н
XA149	СН3-	н	Н	, Os	Н	Н
XA150	СН3-	н	Н	Ç ^N S	н	н
XA151	снз-	Н	Н		н	н
XA152	снз-	н	Н		н	Н
XA153	снз-	Н	Н	, CLS,	н	Н
XA154	СН3-	Н	н	,CCN	н	Н
XA155	СН3-	Н	н	Č.	Н	Н
XA156	снз-	Н	н	CT's	Н	Н
XA157	снз-	Н	Н		Н	Н

No.	R1	R2	R3	R4	R5	R6
XA158	СН3-	н	н	Tin	Н	н
XA159	снз-	н	н	, LTSN	н	Н
XA160	снз-	н	Н	ÇÇN 	н	Н
XA161	СН3-	Н	Н	O ⁱ ,	Н	Н
XA162	СН3-	н	н	For	Н	Н
XA163	СН3-	Н	н	F	н	Н
XA164	СН3-	н	н		Н	Н
XA165	СН3-	Н	н	CIO	Н	Н
XA166	СН3-	Н	н ,	CI CI CI	Н	н
XA167	снз-	Н	Н		Н	Н
XA168	СН3-	Н	Н	Br O	Н	н
XA169	СН3-	Н	Н	Br	Н	Н
XA170	CH3-	Н	Н		Н	н
XA171	СН3-	н	н	CHO	Н	Н
XA172	СН3-	H	н	H ₃ C	н	н
XA173	СН3-	Н	н		н	Н
XA174	СН3-	н '	Н	CH3O O	н	н
XA175	СН3-	Н	Н	H ₃ CO	Н	н
XA176	СН3-	Н	н		Н	н
XA177	СН3-	Н	Н	NO O	Н	Н
XA178	CH3-	Н	н	O ₂ N	Н	Н
XA179	СН3-	н	Н		Н	Н

No.	R1	R2	R3	R4	R5	R6
XA180	СН3-	н	н	R4 GH O	Н	Н
XA181	снз-	н	Н	[/] ·	Н	Н
XA182	СН3-	Н	н		н	Н
XA183	СН3-	Н	Н	NHO	н	Н
XA184	СН3-	н	Н	H ₂ N	Н	H
XA185	СН3-	н	Н	Hall o	Н	Н
XA186	СН3-	Н	н	CEN O	н	Н
XA187	СН3-	н	н	NC O	н	Н
XA188	СН3-	Н	Н	NC J.	н .	Н
XA189	снз-	Н	н		н	н
XA190	снз-	н	н	QQ ¹ ,	н	н
XA191	снз-	H	Н) / / / /	Н	н
XA192	СН3-	н	н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
XA193	снз-	н	Н	~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Н
XA194	СН3-	н	н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	н
, XA195	СН3-	н	H.		н	н
XA196	снз-	Н	н	~~~~~	н	н
XA197	СН3-	н	н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Н
XA198	СН3-	Н	Н	~~\ ¹ y	Н	Н
XA199	снз-	Н	Н	~~~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
XA200	СН3-	Н	Н	~~~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
XA201	СН3-	Н	Н	√ J _r	н	Н

No.	R1	R2	R3	R4	R5	R6
XA202	снз-	H	н .		н	Н
XA203	СН3-	Н	н	ر الم	Н	н
XA204	СН3-	Н	Н		Н	Н
XA205	СН3-	H ₃ CO 7	Н	н	Н	н
XA206	СН3-	H₃CO ≻	Н	СН3-	н .	Н
XA207	СН3-	O H₃CO ≻	Н	снзсн2-	Н	Н
XA208	СН3	O H₃CO →	Н	∼ ``	н	н
XA209	СН3-	H₃CO →	н	ightharpoons	Н	Н
XA210	CH3~	O H ₃ CO '>	н .	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н
XA211	СН3-	H³CO_^\	Н	人、	н	н
XA212	СН3-	H ₃ CO >	Н	~~`	Н	н
XA213	СН3-	H₃CO ≻	Н	7	Н	Н
XA214	СН3-	H³CO, λ	Н	^	Н	н
XA215	CH3-	H³CO, λ	Н	/ ~	Н	Н
XA216	СН3-	H³CO_≻	Н	<u> </u>	Н	н
XA217	СН3-	H³CO ≻	н	7	н	н
XA218	CH3-	H ₃ CO Y	Н	\\\\	Н	н
XA219	CH3-	O H₃CO ≻	н		н	Н
XA220	СН3-	H ₃ CO >	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Н
XA221	CH3-	O H ₃ CO y	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н
XA222	CH3-	H₃CO´>r	Н	n-C8H17-	Н	н
XA223	CH3-	O H₃CO →	Н	L	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA224	СН3	H³CO_}	н	Qu	н	н
XA225	СН3-	H³CO, ≻	н		н	н
XA226	CH3-	H³CQ_≻ O	Н		н	н
XA227	CH3-	H³CO,≻	Н	$\triangleright \rightarrow$	н	Н
XA228	CH3-	H3CO, >,	Н	$\Diamond \dashv$	н	н
XA229	СН3	H ₃ CO >	Н		н .	н
XA230	СН3-	H³CQ_≻ O	Н		н	Н
XA231	СН3-	H³CQ_>\	н		н	н
XA232	СН3-	H³CO_≻ O	н		н	н
XA233	СН3-	O H₃CO →	н	F{	н .	н
· XA234	снз-	H³CO, λ	н	F	Н	н
XA235	снз-	H³CO, Ϟ	Н	F-(н	н
XA236	снз-	H₃CO →	Н	CI →	Н	Н
XA237	снз-	H ₃ CO ×	н	CI 	н	н
XA238	СН3-	H ₃ CO Y	Н	c⊢(_ }	Н	н
XA239	снз-	O H₃CO ≻	н	Br	H _.	Н
XA240	СН3-	H ₃ CO ×	Н	Br.	н .	Н
XA241	СН3-	O H ₃ CO y	Н	Br- ⟨ _}-{	Н	н
XA242	СН3-	O H₃CO ≻	Н	CH₃	Н	Н
XA243	снз-	H³CO, Y	Н	H ₃ C	Н	Н
XA244	СН3-	O H₃CO ≻	Н	H ₃ C-{_}	Н	н
XA245	CH3-	O H₃CO ≻	Н	C ₂ H ₅ -{_}	Н	н

No.	R1	R2	R3	R4	R5	R6
XA246	CH3-	H³CO, ≻	н	n-C ₃ H ₇ {	H	Н
XA247	снз-	H³CO, ≻	н	n-C ₄ H ₉ -	н	н
XA248	снз-	H³CO ,	н	OCH₃ <	Н	н
XA249	СН3-	H³CO, >	Н	H₃CO ————————————————————————————————————	Н	Н
XA250	снз-	H ₃ CO">	Н	H₃CO-{}{	Н	H
XA251	СН3-	H³CO, }	Н	C ₂ H ₅ O-{{}}	Н	Н
XA252	снз-	H³CO, }	н	n-C ₃ H ₇ O-	Н	н
XA253	снз–	H³CO_>	н	n-C ₄ H ₉ O-{\rightarrow}-{\rightarrow}-{\rightarrow}	Н	н
XA254	СН3-	H ₃ CO >	Н	NO ₂	Н	Н
XA255	СН3	H³CO,	н	O ₂ N - \{}	Н	н
XA256	снз-	H³CO_>	Н	O ₂ N-{}	Н	н
XA257	СН3-	O H₃CO ≻	Н	CN	Н	н
XA258	снз–	H³CO,≻	н	NC ——	Н	н
XA259	СН3-	H³CO_>	н	NC-{}	н .	H
XA260	снз–	H³CO ×	Н	NMe ₂	н	Н
XA261	снз-	H³CO_>	н	Me ₂ N →	Н	н
XA262	снз-	H³CO >	Н	Me ₂ N-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
XA263	СН3-	H³CO,≻	H	OP.	Н	н
XA264	СН3-	H₃CO >	н		н	н
XA265	снз-	H³CO_≻	Н		Н	Н
XA266	СН3-	O H³CO, ≻	Н		Н	Н
XA267	СН3	O H ₃ CO [*] >	Н	OO'S	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA268	СН3-	H3CO,	Н	R4 O	н .	Н
XA269	снз-	H³CO, >-	Н	Ŷ,	н	Н
XA270	СН3-	C ₂ H ₅ O y	Н	н	Н	Н
XA271	CH3-	C ₂ H ₅ O	Н	СН3-	Н	Н
XA272	CH3-	O C ₂ H ₅ O →	Н	снзсн2-	Н	Н
XA273	СН3-	C ₂ H ₅ O y	Н	<u> </u>	Н	Н
XA274	СН3-	C ₂ H ₅ O ,	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
XA275	снз-	C ₂ H ₅ O 7	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
XA276	снз-	C ₂ H ₅ O · · ·	н	<u> </u>	Н	н
XA277	снз-	C ₂ H ₅ O y	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	н
XA278	CH3-	C ₂ H ₅ O y	н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н
XA279	снз-	C ₂ H ₅ O yr	Н	^	H	Н
XA280	снз-	C ₂ H ₅ O /	H	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Н
XA281	СН3-	C ₂ H ₅ O y	Н	Xr Xr	н	Н
XA282	снз-	C ₂ H ₅ O ,	н	7	Н	н
XA283	снз-	C ₂ H ₅ O ,	н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	H
XA284	снз-	C ₂ H ₅ O y	Н	L	н	Н
XA285	СН3-	C ₂ H ₅ O >	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	н
XA286	СН3-	C ₂ H ₅ O	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н .	Н
XA287	снз-	O C ₂ H ₅ O 7	н	n-C8H17-	н	Н
XA288	снз-	C ₂ H ₅ O y	н	L~~~	н	Н
XA289	СН3-	O C ₂ H ₅ O	Н	Qu	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA290	СН3-	C ₂ H ₅ O ×	н		Н	н
XA291	снз-	O C ₂ H ₅ O 7	н	Qui	н	Н
XA292	снз-	C ₂ H ₅ O ^M >	н		н	Н
XA293	СН3-	O C ₂ H ₅ O >	н	\Diamond	Н	н
XA294	снз-	C ₂ H ₅ O }	Н		Н	Н
XA295	СН3-	O C ₂ H ₅ O √γ	н		Н	н
XA296	СН3-	C ₂ H ₅ O 7	н		Н	Н
XA297	СН3-	C ₂ H ₅ O y	H		Н	Н
XA298	снз-	C ₂ H ₅ O ¹ / ₂	н	F —}	н	н
XA299	СН3-	O C ₂ H ₅ O / y	Н	F	Н	Н .
XA300	СН3-	C ₂ H ₅ O 7	Н	F-();	Н	Н
XA301	СН3-	C ₂ H ₅ O	Н	CI	Н	Н
XA302	снз-	C ₂ H ₅ O y	Н	CI. →	Н	Н
XA303	СН3-	C ₂ H ₅ O	Н	c⊢(_)~i	Н	Н
XA304	снз-	C ₂ H ₅ O /	Н	Br —{	н	н
XA305	снз-	C ₂ H ₅ O y	н	Br.	н	н
XA306	СН3-	C ₂ H ₅ O	Н	Br—(Н	н
XA307	СН3-	C ₂ H ₅ O	Н	CH ₃	Н	Н
XA308	снз-	O C ₂ H ₅ O 7	Н	H₃C →	н .	Н
XA309	снз-	O C₂H₅O →	Н	H ₃ C-{	н	Н
XA310	СН3-	C ₂ H ₅ O y	Н	C ₂ H ₅ -{}-{	н	н
XA311	снз-	O C ₂ H ₅ O //	н	n-C ₃ H ₇ {	н	Н

No.	R1	-R2	R3	R4	R5	R6
XA312	СН3-	C ₂ H ₅ O /	Н	n-C ₄ H ₉ -{}-{	Н	Н
XA313	снз-	C ₂ H ₅ O ,	н	OCH₃ ◯>–{	н	н
XA314	снз-	C ₂ H ₅ O y	Н	H₃CO 	н	Н
. XA315	СН3-	C ₂ H ₅ O y	Н	H ₃ CO-{}-{	Н	Н
XA316	СН3-	C₂H₅O →	Н	C ₂ H ₅ O-{	Н	Н
XA317	снз-	C₂H₅O →	Н	n-C ₃ H ₇ O-{_}-{	н	Н
XA318	снз-	C ₂ H ₅ O 7	Н	n-C ₄ H ₉ O-	н	Н
XA319	снз-	C ₂ H ₅ O 7	н	NO ₂	Н	Н
XA320	снз-	C ₂ H ₅ O ,	Н	O ₂ N	н .	Н
XA321	снз-	O C ₂ H ₅ O ->-	Н	O ₂ N-{}	Н	Н
XA322	снз-	C ₂ H ₅ O /	Н	CN	н	Н
XA323	снз-	C ₂ H ₅ O 7	Н	NC	н	Н
XA324	снз-	C ₂ H ₅ O 7	Н	NC-{}-{	Н -	Н
XA325	снз-	C ₂ H ₅ O >	Н	NMe ₂	Н	н
XA326	СН3-	O C ₂ H ₅ O >	Н	Me ₂ N	н	н
XA327	СН3-	C ₂ H ₅ O ,	Н	Me ₂ N-(H.	н
XA328	снз-	C ₂ H ₅ O y	н		Н	Н
XA329	СН3-	O C ₂ H ₅ O ->-	н		Н	Н
XA330	снз-	C₂H₅O →	Н		Н	н
XA331	снз-	C ₂ H ₅ O	н	Qi,	н	Н
XA332	снз-	C ₂ H ₅ O ¹ ,	н	OO's	н	н
XA333	снз-	O C₂H₅O →	Н	<u></u>	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA334	снз-	O C ₂ H ₅ O /	н	\J.,	н .	Н
XA335	CH3-	СН3-	н	н	н	Н
XA336	СН3-	СН3СН2-	н	н	Н	Н
XA337	сн3-	/ \\.	н	н	Н	Н
XA338	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н	н	H
XA339	СН3-	\\\	Н	н	Н	Н
XA340	CH3-	人〉	Н	н	н	Н
XA341	СН3-	\uparrow	Н	Н	Н	Н
XA342	СН3-	\nearrow	Н	Н	н	Н
XA343	СН3	◇ ◇ \	Н	Н	Н	н
XA344	СН3-	\ \\	н	н	Н	Н
XA345	СН3-	大	Н	Н	Н	Н
XA346	СН3-	\Rightarrow	Н	Н	Н .	н
XA347	СН3-	>	Н	н	н .	Н
XA348	СН3-		н	Н	н	н
XA349	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	н	н
XA350	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н	H .	Н
XA351	СН3-	n-C8H17-	Н	н	Н	Н
XA352	СН3-		Н	н	Н	Н
XA353	СН3-	Q	Н	н .	Н	Н
XA354	СН3-		Н	Н	Н	Н
XA355	СН3-		Н	Н	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA356	снз-	$\triangleright \rightarrow$	Н	н	н	Н
XA357	снз-	\Diamond -i	Н	н	н	н
XA358	СН3-		н	н	н	н
XA359	СН3-	\bigcirc \dashv	Н	н	н	Н
XA360	снз-	\bigcirc -1	Н	н	Н	Н
XA361	СН3-		Н	н	Н	н
XA362	снз-		Н	Н	Н	Н
XA363	СН3-	⊘ 11-\$	н	Н	Н	Н
XA364	СН3-	F →	Н	н	Н	Н
XA365	снз-	<u></u>	Н	н	Н	Н
XA366	СН3-	F-{}-	н	н	Н	Н
XA367	СН3-	F-(>-1	Н	н	н	Н
XA368	СН3-	F—()····{	н	Н	н	Н
XA369	СН3-	CI	Н	н	н	Н
XA370	СН3-	CI	н	н	н	н
XA371	снз-	c⊢ (_ }-₁	н	н	н	н
XA372	СН3-	c⊢ ()→	Н	н	н	Н
XA373	снз-	C⊢ (∑m∮	Н	Н	Н	Н
XA374	снз-	Br	Н	Н	н	Н
XA375	снз-	Br.	Н	н	н	Н
XA376	снз-	Br- {	Н	Н	Н	Н
XA377	снз-	Br—{}	Н	н	н	Н

No.	R1	R2	R3	R4	R5	R6
XA378	СН3-	Br⊸∰ııı∤	Н	н	Н	Н
XA379	СН3-		н	Н	н	н
XA380	снз-		Н	Н	н	н
XA381	СН3-	⊢	Н	Н	Н	н
XA382	СН3-	CH₃	н	Н	Н	н
XA383	СН3-	H ₃ C	Н	н	Н	Н
XA384	снз-	H ₃ C-{}	Н	Н	Н	Н
XA385	снз-	C ₂ H ₅ -{}	Н	н	Н	Н
XA386	снз-	n-C ₃ H ₇ -{}-{	Н	н	Н	Н
XA387	СН3-	n-C ₄ H ₉ {}	Н	Н	Н	н
XA388	снз-	OH ○	H	H	Н	н
XA389	СН3-	HO —	Н	Н	Н	н .
XA390	снз-	HO-{	н	Н	Н	Н
XA391	снз-	OCH ₃ _	Н	Н	н	н
XA392	снз-	H₃CO ——{	Н	Н	н	н
XA393	снз-	H ₃ CO-{}{	н	н	н	Н
XA394	снз-	H ₃ CO-{}	Н	Н	н	Н
XA395	снз-	H ₃ CO-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Н	н	Н
XA396	СН3-	OC ₂ H ₅	н	Н	н	Н
XA397	снз-	C ₂ H ₅ O	Н	Н	Н	Н
XA398	CH3-	C ₂ H ₅ O-{}	Н	Н	н	н
XA399	CH3-	n-C ₃ H ₇ O-	н	Н	н	Н

No.	R1	R2	R3	R4	R5	R6
XA400	СН3-	n-C ₄ H ₉ O-{	H	Н	н	Н
XA401	СН3-	NO ₂	н	н	Н	н
XA402	снз-	O ₂ N	Н	н	н	Н
XA403	снз-	O ₂ N-{}	Н	н	н	Н
XA404	снз-	CN	Н	Н	Н	H
XA405	СН3-	NC	Н	н	н	н
XA406	снз–	NC-{}-{	Н	н	н	Н
XA407	снз-	\ <u>_</u> /_;	H	н	Н	Н
XA408	снз-	F₃C —	Н	Н	Н	H
XA409	снз-		Н	н	Н	н
XA410	СН3-	<u> </u>	Н	н	н	н
XA411	СН3-	HOOC	Н	н	н	H
XA412	снз-		Н	н	Н	Н
XA413	СН3-	();	н	н	н	Н
XA414	СН3-	MeO ₂ C {	н ——	н	н	н .
XA415	СН3-	•	н ·	н	Н	н .
XA416	СН3-	(/_;	Н	Н	Н	Н
XA417	снз-	EtO ₂ C	н	Н	н	Н
XA418	СН3-		Н	Н	н.	Н
XA419	СН3-	<u>_</u> /}	Н	Н	Н	Н
XA420	СН3-	MeS —}	Н	Н	Н	Н
XA421	СН3-	MeS-{\rightarrow}-{\}	H	Н	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA422	СН3-	SO ₂ Me	Н	н	Н	Н
XA423	снз-	MeO ₂ S	н	Н	н	Н
XA424	снз-	MeO ₂ S-⟨}	н	Н	Н	н
XA425	CH3-	NH ₂	Н	Н	Н	Н
XA426	СН3-	H ₂ N	н	Н	н	H
XA427	СН3-	H_2N-	Н	Н	Н	н
XA428	СН3-	NMe₂ →	Н	Н	н	н
XA429	СН3	Me ₂ N	Н	Н	н	Н
XA430	СН3-	Me₂N-{	Н	Н	Н	н
XA431	СН3-		H,	н	Н	н
XA432	СН3-		Н	н	н	н
XA433	СН3	_N	Н	Н	Н	н _
XA434	СН3-		Н	Н	Н	Н
XA435	СН3-		Н.	н	Н	н
XA436	СН3-	_\n-_\+	Н	н	н	Н
XA437	снз-		н	н	Н	н
XA438	СН3-	ON-	Н	н	н	Н
XA439	снз–	o_n-< <u>}</u> -	Н	н .	н	Н
XA440	СН3-	H₃CN_N-⟨	Н	Н	н	Н
XA441	снз-	H₃CN_N-⟨}	н	н	Н	н
XA442	СП3-		Н	Н	Н	Н
XA443	СН3-	H ₃ C CH ₃	Н	Н	н	Н

No.	R1	R2	R3	R4	R5	R6
XA444	CH3-	CH ₃ H ₃ C-()}	Н	н	H	Н
XA445	СН3-	CH ₃ ⟨□)→ H ₃ C	Н	н	н	Н
XA446	СН3-	CH ₃ CH ₃	Н	Н	н	Н
XA447	СН3-	H ₃ C H ₃ C-_}-{	Н	Н	Н	Н
XA448	CH3-	H₃C H₃C	Н	н	н	Н
XA449	CH3-	F_F	Н	H	н	Н
XA450	CH3-	F—(S)→	Н	Н	Н	Н
XA451	СН3-	Ş F F	Н	н	Н	Н
XA452	СН3-	F F	Н	Н	Н	Н
XA453	СН3-	F——}	н	Н	Н	н
XA454	сйз-	F F	Н	Н	Н	Н
XA455	снз-	a a	Н	Н	Н	Н
XA456	СН3-	CI—CI	н	н	Н	Н
XA457	СН3-	a J	Н	Н	Н	Н
XA458	СН3-	σ∭a	Н	Н	Н	Н
XA459	CH3-	CI———→	Н	Н	н	Н

No.	R1	R2	R3	R4	R5	R6
XA460	СН3-	- CI	Н	Н	н	H
XA461	СН3-	H₃CO_OCH₃	Н	Н	н	Н
XA462	CH3-	H ₃ CO-	H	н	Н	Н
XA463	CH3-	OCH ₃ H ₃ CO	Н	н	Н	Н
XA464	СН3	OCH ₃ OCH ₃	Н	Н	Н	Н
XA465	СН3-	H ₃ CO —	Н	Н	Н	Н

No.	R1	R2	R3	R4	R5	R6
		H₃CQ	1			170
XA466	СН3-	H₃CO H₃CO	н	н	н	Н
XA467	Сн3-	F_OCH ₃	н	Н	н	н
XA468	СН3-	OCH₃ F—	Н	Н	н	Н
XA469	СН3-	OCH ₃	Н	Н	н	н .
XA470	СН3-	OCH ₃ F—∑iii-{	н	Н	Н	н
XA471	CH3-	OCH ₃	Н	Н	н	н
XA472	СН3-	OCH₃ ⇒ F	н	Н	Н	Н
XA473	СН3-	H₃CO F—⟨□⟩	Н	н	н	н
XA474	СН3-	H₃CQ F	Н	н	н	Н
XA475	СН3-	H₃CO_F	Н	н	н	Н
XA476	СН3-	H₃CO-{=}-	Н	Н	н	н
XA477	СН3-	H₃CO F	н	н	н	Н
XA478	СН3-	H₃CO-⟨¯¯	н	Н	Н	Н
XA479	СН3-	CI_OCH₃	Н	Н	Н	н
XA480	СН3-		Н	Н	Н	Н
XA481	CH3-	OCH₃ CI	н	Н	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA482	СН3-	OCH₃ Ci	н	Н	Н	Н
XA483	СН3-	H₃CO CI—	Н	Н	н	н
XA484	СН3-	H₃CQ CI	Н	Н	н	Н
XA485	СН3-	H₃CO_CI	Н	н	н	Н
XA486	СН3-	H₃CO-⟨¯́) - ;	Н	н	Н	Н
XA487	СН3-	CI H₃CO	н	Н	н	н

No.	R1	R2	R3	R4	R5 ·	R6
XA488	СН3-	CI, H ₃ CO-	н	Н	н	Н
XA489	СН3-	F_CH ₃	н	Н	Н	н
XA490	СН3-	CH₃ F—	Н	Н	Н	Н
XA491	СН3-	CH₃ F	н	Н	Н	Н
XA492	СН3-	CH₃ F	н	Н	Н	Н
XA493	СН3-	H ₃ C F—	Н	H	н	Н
XA494	СН3-	H₃C ↓ F	н	Н	Н	Н
XA495	СН3-	H₃C · F	Н	Н	н	н
XA496	CH3-	H₃C-⟨¯¯∕¯	Н	н	Н	Η
XA497	CH3-	H ₃ C	Н	н	н	Н
XA498	СН3-	H₃C-⟨¯⟩→	H	н	н	Н
XA499	CH3-	Br_OCH₃	H	н	н	н
XA500	СН3-	OCH₃ Br—⟨ →	Н	н	Н	Н
XA501	снз-	OCH₃ Br	Н	н	Н	Н
XA502	СН3-	OCH ₃ Br	Н	н	н	Н
XA503	СН3~	H₃CO Br—√	Н	Н	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA504	СН3-	H₃CQ Br	Н	Н	н	Н
XA505	СН3-	H₃CO_Br	н	Н	Н	Н
XA506	СН3-		Н	Н	н	н
XA507	СН3-	Br → H₃CO	н	Н	Н	н
XA508	СН3-	Br H₃CO-⟨	Н	Н	н	Н
XA509	CH3-	H³CO >	Н	н	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA510	СН3-	OCH ₃	Н	Н	Н	Н
XA511	CH3-	CN-⟨_}OCH3	Н	Н	Н	Н
XA512	CH3-	H ₃ CO >	Н	Н	н	н
XA513	СН3-	H ₃ CO N-\\\	Н	н	Н	н
 XA514	СН3-	CN OCH3	н	Н	н	Н
XA515	СН3	F-{-}; F	Н	н	Н	н
XA516	снз-	OCH ₃ F	Н	н	н	Н
XA517	СН3-	H₃CO-⟨∑F F	Н	Н	Н	Н
XA518	СН3-	OCH₃ F-⟨≻; OCH₃	Н	н	Н	Н
XA519	СН3-	OCH₃ H₃CO-⟨_}→ OCH₃	Н	н	H .	н
XA520	СН3-	CI CI CI	Н	Н	н	н
XA521	CH3-	OCH ₃ CI—∑—; CI	Н	н	н	Н
XA522	СН3-	CI H₃CO-⟨∑→; CI	H	Н	Н	Н
XA523	СН3-	OCH₃ CI—Ç—; OCH₃	Н	н	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA524	СН3-	OCH ₃ H ₃ CO-{_}-} OCH ₃	Н	н	Н	Н
XA525	СН3-	OCH ₃	Н	Н	H	н
XA526	СН3-	H₃CO ————————————————————————————————————	Н	Н	Н	н
XA527	СН3-	H₃CO- ⟨ _}- ⟨ _}-/	Н	Н .	н	Н
XA528	СН3-	OCH ₃ \t	Н	н	н	Н
XA529	СН3-	H ₃ CO ,	Н	н	н	Н
XA530	СН3-	H₃CO-⟨∑-⟨∑ [\]	н	Н	н	н
XA531	СН3-	OCH ₃	Н	н ·	н	Н

No.	R1	R2	R3	R4	R5	R6
XA532	СН3-	H ₃ CO	Н	Н	Н	Н
XA533	СН3-	H₃CO-{_}	Н	Н	Н	Н
XA534	СН3	₹	Н	Н	Н	н
XA535	СН3-	F	Н	Н	Н	Н
XA536	СН3-	F-{_}-{}-{}	н	н	Н	н
XA537	СН3-		Н	Н	Н	Н
XA538	СН3-		Н	н	н	Н
XA539	снз-		Н	н	Н	Н
XA540	СН3-		H	Н	н	Н
XA541	СН3-	\$\langle \times \cdot \tau \tau \tau \tau \tau \tau \tau \tau \tau \tau \tau \tau \tau \tau \tau \tau \tau \tau \tau \tau \tau \tau \tau \tau \tau \tau \tau \tau \tau \tau \tau \tau \tau \tau \tau \qua	Н	Н	Н	Н
XA542	СН3-		Н	н .	н	Н
XA543	СН3-		Н	Н .	н	Н
XA544	СН3-		Н	Н	Н	Н
XA545	СН3-	Н	Н	Н	Н	Н
XA546	СН3-	HN	Н	Н	Н	Н
XA547	СН3-	O\\\	Н	H	Н	н

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No.	R1	R2	R3	R4	R5	R6
XA548	СН3-	5	Н	Н	Н	Н
XA549	СН3-		н	Н	H .	Н
XA550	СН3-	\$7	н	Н	Н	Н
XA551	СН3-	HN	Н	Н	н	Н
XA552	СН3-	HN 55.	Н	н	Н	Н
XA553	СН3-	/=N HN	Н	Н	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA554	СН3-	TZ \		•	Н	н
XA555	СН3-		Н	Н	Н .	Н
XA556	снз-	N ₂	Н	Н	Н	Н
XA557	СН3-	N-O	Н	н	Н	Н
XA558	СН3-	S _N	Н	н	н	H
XA559	СН3-	N= S	Н	н	н	Н
XA560	снз-	N-S	Н	н	н	Н
XA561	СН3-	/=N O /> ,	Н	н	н	н
XA562	снз-	O r	Н	н	Н	Н
XA563	СН3-	N Z	Н	н	н	Н
XA564	снз-	S,	Н	Н	Н	Н
XA565	СН3-	S	Н	н	Н	Н
XA566	СН3-	N , ,	н	Н	н	н
XA567	СН3-	~ 1.	H,	н	н	Н
XA568	СН3-	N	Н	н	н	Н
XA569	СН3-	<u>N</u> →	н	н .	Н	H
XA570	CH3~	N ←	Н	Н	н	н
XA571	СН3-	N_N	Н	н	н	н .
XA572	СН3	N=>	Н	н	Н	Н
XA573	СН3-		Н	н	Н	Н
XA574	СН3-		Н	Н	Н	Н
XA575	снз-	T H	Н	н	н	н

No.	R1	R2	R3	R4	R5	R6
XA576	СН3-	スペピン		Н	Н	Н
XA577	снз-	, Dr	Н	Н	H	н
XA578	снз-	Çî,	Н	Н	Н	н
XA579	СН3-		Н	н	Н	Н
XA580	снз-		Н	н	Н	H
XA581	снз-	Čr)	Н	н	н	Н
XA582	СН3-	TO:	н	Н	Н	Н
XA583	снз-	,CI	н	н	Н	Н
XA584	снз-	Ţ?	Н	Н	н	н .
XA585	снз-	(I)-i	Н	н	н	Н
XA586	СН3-		н	н	н	Н
XA587	снз-	T S	н	Н	н	н
XA588	снз-	TIS	Н	н	н	н
XA589	СН3-	,CTS	н	н	н	н
XA590	СН3-	Čt.	н	Н	н	н
XA591	CH3-	CTP .	Н	н	Н	Н
XA592	СН3-	J'N	н	н	н	Н
XA593	СН3-		Н	н -	н	Н
XA594	СН3-	'CL'	н	Н	н	Н
XA595	СН3-	Ž,	Н	Н	Н	Н
XA596	CH3-	CT N N N N N N N N N N N N N N N N N N N	Н	Н	н	Н
XA597	СН3-	Č,	Н	Н	н	н

No.	R1	R2	R3	R4	R5	R6
XA598	сн3-	√\\\\\		Н	н	Н
XA599	сн3-		Н	н	Н	н
XA600	снз-	Ž N	H	н	Н	Н
XA601	СН3-	'CIN	Н	Н	н	Н
XA602	снз-	\.\.\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	Н	н
XA603	снз-		Н	Н	н	Н
XA604	СН3-	(Ts→	Н	Н	Н	н
XA605	снз-	T _N	н	Н	H	Н
XA606 .	СН3-	TT,	Н	Н	Н	Н
XA607	CH3-	i S	Н	Н	н	н
XA608	снз-	Çî,	Н	н	н	Н
XA609	СН3-	C.	Н	н	н	н
XA610	снз-	Ö	н	н	н	Н
XA611	СН3-	103°	Н	н .	Н	Н
XA612	СН3-	,CT%	н	Н	Н	н
XA613	снз-	Ç;	н	Н	Н	Н
XA614	снз-		Н	н	Н	н
XA615	снз-	Ĭ,	н	Н	Н	н
XA616	снз-	"TJ"	H	н	Н	Н
XA617	снз-	,U\$N	Н	Н	Н	н
XA618	СН3-	Ž,	н	Н	Н	н
XA619	снз-	Ŷ,	н	н	н ,	н

No.	R1	R2	R3	R4	R5	R6
XA620	снз-	,CC;	Н	н	н	Н
XA621	СН3-	T)	Н	н	н	н
XA622	СН3-		Н	Н	н	н
XA623	СН3-	СН3-	Н	снз	н	н
XA624	СН3-	СНЗСН2-	Н	СНЗ	н	H
XA625	СН3-	∼ \	Н	снз	Н	н
XA626	СН3-	Y	Н	снз	Н	н
XA627	снз-	✓ ✓ .	Н	снз	н	н
XA628	снз-	L	Н	СНЗ	Н	н
XA629	снз-	~	Н	СНЗ	Н	н
XA630	СН3-	丫	н	СНЗ	н	н
XA631	снз-	~~\\	н	СН3	н	н
XA632	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СНЗ	н	н
XA633	СН3-	\\ \	Н	СНЗ	н	Н
XA634	снз-	7	н	СНЗ	Н	н
XA635	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СНЗ	н	н
XA636	снз-	↓~~	н	СНЗ	Н	н
XA637	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СНЗ	Н	Н
-XA638	СН3-	Y~~~	Н	СНЗ	Н	Н
XA639	СН3-	n-C8H17-	Н	СНЗ	Н	Н
XA640	СН3-	L	Н	CH3	Н	н
XA641	CH3-	Q	н	СНЗ	н	н

No.	R1	R2	R3	R4	R5	R6
XA642	снз-		Н	снз	Н	Н
XA643	снз-	Q	Н	СНЗ	Н	Н
XA644	снз-	$\triangleright \rightarrow$	Н	СН3	Н	н
XA645	СН3-	\Diamond	Н	снз	н	н
XA646	снз-	$\bigcirc \dashv$	н	снз	Н	H
XA647	снз-	\bigcirc \dashv	Н	снз	Н	н
XA648	снз-	\bigcirc -1	Н	СНЗ	н	Н
XA649	СН3-	◯ −₹	Н	снз	н	Н
XA650	снз-	<u></u>	Н	СНЗ	Н	Н
XA651	СН3-	<u></u>	н	снз	Н	Н
XA652	снз-	F.	Н	СНЗ	Н	Н
XA653	CH3-	F	н	снз	н	н
XA654	СН3-	F-(Н	снз	Н	Н
XA655	снз-		Н	снз	н	Н
XA656	снз-	F	Н	СНЗ	н	Н
XA657	снз-	CI	н	СНЗ	н	Н
XA658	снз-	CI	Н	снз	Н	Н
XA659	снз-	C⊢ (н	СНЗ	н	н
XA660	снз-	c 	н	снз	H	н
XA661	СН3-	CI-	н	снз	н	н
XA662	СН3-	Br △	Н	снз	Н	н
XA663	СН3-	Br.	Н	СНЗ	н	н

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No.	R1	R2	R3	R4	R5	R6
XA664		Br-{}-{	Н	СНЗ	Н	н
XA665	СН3-	Br—	Н	СН3	Н	н
XA666	снз-	Br—⟨⟩™{	Н	СН3	Н	Н
XA667	снз-	△	н	СНЗ	н	н
XA668	снз-		н	СНЗ	Н	н
XA669	снз-	⊢	Н	СН3	Н	н
XA670	СН3-	CH ₃	Н	СНЗ	н	н
XA671	СН3-	H₃C {	Н	СНЗ	H	н
XA672	СН3-	H ₃ C-{{}}	Н	СНЗ	н	Н
XA673	СН3-	C ₂ H ₅ -{	Н	СНЗ	Н	Н
XA674	СН3-	n-C ₃ H ₇ {	н	СНЗ	н	Н
XA675	СН3-	n-C ₄ H ₉ -{	н	СНЗ	н	Н
XA676	СН3-	ОН	н	СНЗ	н	Н
XA677	CH3-	HŌ ————————————————————————————————————	Н	СНЗ	н	н
XA678	СН3-	HO-{\bar{\bar{\bar{\bar{\bar{\bar{\bar	Н	СН3	н	Н
XA679	СН3-	OCH ₃	Н	СНЗ	н	Н
XA680	СН3-	H₃CO	Н	CH3	н	Н
XA681	СН3-	H ₃ CO-{	Н	СНЗ	н	н
XA682	снз-	H ₃ CO-{}	Н	СНЗ	Н	Н
XA683	СН3÷	H ₃ CO-{\bigs\!''\!{	н	СНЗ	н	Н
XA684	СН3-	OC ₂ H ₅	Н	СНЗ	Н	Н
XA685	СН3-	C ₂ H ₅ Q	Н	снз	Н	н

No.	R1	R2	R3	R4	R5	R6
XA686	СН3-	C ₂ H ₅ O-{	Н	СН3	Н	Н
XA687	СН3-	n-C ₃ H ₇ O-	Н	СН3	Н	Н
XA688	СН3-	n-C ₄ H ₉ O-	Н	СН3	H ·	Н
XA689	снз-	NO ₂	Н	СН3	н	Н
XA690	СН3-	O ₂ N	Н	СНЗ	н	Н
XA691	снз-	O ₂ N-{	Н	снз	н	Н
XA692	СН3-	CN	н	СНЗ	H	Н
XA693	СН3-	NC —-{	Н	СН3	н	H
XA694	снз-	NC-(н	снз	н	Н
XA695	СН3-	CF ₃	H _.	снз	н	Н
XA696	СН3-	F ₃ C {{	н	снз	н	н
XA697	снз-	F ₃ C-{}	н	снз	Н	Н
XA698	снз-	COOH C }	Н	СНЗ	н	Н
XA699	снз-	HOOC	н	снз	н	н
XA700	СН3-	HOOC-{\bigs_+	Н	снз	Н	Н
XA701	СН3-	CO ₂ Me	н	снз	Н	н
XA702	снз-	MeO ₂ C 	н	снз	Н	Н
XA703	снз-	MeO₂C-⟨}	н	снз	н _	Н
XA704	СН3-	CO ₂ Et	н	СНЗ	Н	Н
XA705	снз-	EtO ₂ C	Н	снз	Н	Н
XA706	снз-	EtO ₂ C-{}-{	н	снз	Н	Н
XA707	снз-	SMe	Н	снз	н	Н

No.	R1	R2	R3	R4	R5	R6
XA708	снз-	MeS	н	снз	Н	н
XA709	СН3-	MeS-{}	Н	снз	н	Н
XA710	снз-	SO ₂ Me	н	снз	Н	Н
XA711	снз-	MeO ₂ S —∤	н	снз	Н	Н
XA712	СН3-	MeO ₂ S-{}	н	снз	Н	H
XA713	снз-	NH ₂ →	Н	снз	н	н
XA714	снз-	H ₂ N —	н	снз	Н	Н
XA715	СН3-	H ₂ N-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	снз	н	Н
XA716	СН3-	NMe ₂	Н	снз	н	н
XA717	СН3-	Me ₂ N —}	Н	снз	Н	Н
XA718	СН3-	Me ₂ N—(н	СНЗ	н	н
XA719	снз-		н	снз	н	Н
XA720	снз-		н	СНЗ	н	н
XA721	СН3-		Н	СНЗ	Н	Н
XA722	снз-	_______\\\\\\\\\\\\\\\\\\	н	снз	н	Н
XA723	СН3-	N-Q	н	СНЗ	н	Н
XA724	СН3-	_N-_\\	Н	СНЗ	н	Н
XA725	СН3-	~_____	Н	СН3	Н	Н
XA726	СН3-	_N	Н	СНЗ	Н	H
XA727	снз-	<u>~~</u> }	н	СН3	Н	н
XA728	СН3-	H₃CN_N-	Н	СН3	н	Н
XA729	СН3-	H ₃ CN N-	Н	CH3	н	н

No.	R1	R2	R3	R4	R5	R6
XA730	СН3-	H₃CN_N-{_}{	Н	СНЗ	Н	Н
XA731	СН3-	H₃CCH₃	Н	сн3	н	Н
XA732	CH3-	CH ₃ H ₃ C-⟨S⟩—;	н	СНЗ	Н	Н
XA733	СН3-	CH ₃ √ H ₃ C	H	СНЗ	Н	Н
XA734	СН3-	CH₃ CH₃	Н	СНЗ	H	Н
XA735	СН3-	H ₃ C H ₃ C-⟨}}	Н	СН3	Н	Н
XA736	СН3-	H₃C H₃C	Н	СН3	Н	Н
XA737	СН3-	F F	Н	СНЗ	н	Н
XA738	СН3-	F——F	H	СНЗ	н	н
XA739	СН3-	F F	Н	снз	н	Н
XA740	СН3-	F F	Н	снз	н	Н
XA741	СН3-	F———	Н	СНЗ	н	Н
XA742	СН3-	F	Н	СНЗ	Н	Н
XA743	СН3-	CI_CI	Н	СНЗ	н	Н
XA744	СН3-	CI—CI	Н	CH3	Н	н

No.	R1	R2	R3	R4	R5	R6
XA745	СН3-	CI	н	СНЗ	Н	Н
XA746	СН3-	CI	Н	СНЗ	Н	Н
XA747	СН3-	CI————	Н	СНЗ	Н	Н
XA748	СН3	CI	Н	СНЗ	н	Н
XA749	СН3	H ₃ CO OCH ₃	Н	СНЗ	н	Н
XA750	СН3-	H₃CO-⟨□⟩;	н	СНЗ	н	н
XA751	СН3-	OCH ₃ → H ₃ CO	Н	СНЗ	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA752	СН3-	OCH ₃ OCH ₃	Н	СНЗ	H	Н
XA753	СН3-	H ₃ CO	Н	СНЗ	н	Н
XA754	СН3	H₃CO H₃CO	Н	снз	н	Н
XA755	CH3-	F_OCH₃	Н	СНЗ	н	Н
XA756	СН3-	OCH ₃	Н	СНЗ	н	Н
XA757	СН3-	OCH ₃	Н	снз	Н	Н
XA758	СН3-	OCH₃ F—	Н	СНЗ	Н	Н
XA759	СН3-	OCH ₃ F	Н	СНЗ	н	Н
XA760	СН3	OCH ₃	н	СН3	Н	Н
XA761	СН3-	H₃CO F—	Н	СН3	Н	Н
XA762	СН3-	H₃CO F	н	СНЗ	Н	Н
XA763	СН3-	H₃CO_F	н	СНЗ	Н	Н
XA764	СН3-	H₃CO-⟨¯¯ <mark></mark> F	н	СН3	Н	н
XA765	СН3-	F H₃CO	Н	СН3	Н	Н
XA766	СН3-	H₃CO-⟨S	Н	СН3	н	Н

No.	R1	R2	R3_	R4 .	R5	R6
XA767	СН3-	CI_OCH ₃	н	СНЗ	Н	Н
XA768	СН3-	OCH ₃	н	СНЗ	Н	н
XA769	СН3-	OCH ₃	н	СНЗ	Н	н
XA770	CH3-	OCH ₃ CI	н	СН3	Н	н
XA771	СН3-	H₃CO CI—(¯)—;	Н	СНЗ	Н	Н
XA772	СН3-	H₃CO CI	Н	СНЗ	Н	Н
XA773	СН3	H₃CO_CI	Н	СНЗ	H	Н

No.	R1	R2	R3	R4	R5	R6
	 	,CI				
XA774	CH3-		Н	снз	н	Н
XA775	СН3-	н₃со́	H	снз	Н	Н
XA776	СН3-	CI H₃CO-⟨¯}→	Н	снз	н	Н
XA 77 7	СН3-	· ·	н	снз	Н	Н
XA778	СН3-	CH₃ F—()—;	Н	сн3	Н	н
XA779	CH3-	CH₃ ⇒	Н	снз	Н	Н
XA780	СН3	CH₃ F	Н	СНЗ	н	н
XA781	СН3-	H ₃ C F—√∑—∤	Н	СНЗ	н	н
XA782	СН3	H ₃ C F	Н	СНЗ	Н	Н
XA783	СН3-	H ₃ C F	н	СНЗ	Н	н
XA784	СН3-	H ₃ C-⟨¯¯ <mark>F</mark>	Н	СНЗ	Н	Н
XA785	снз-	H ₃ C	Н	снз	Н	Н
XA786	СН3-	F H₃C—	Н	СНЗ	н	Н
XA787	СН3-	Br_OCH ₃	Н	снз	н	Н
XA788	СН3-	OCH ₃ Br—₹	н	снз	н	Н

No.	R1	R2	R3	R4	R5	R6
XA789	СН3-	OCH ₃ Br	H	СНЗ	Н	Н
XA790	CH3	OCH ₃ Br	Н	СНЗ	Н	н
XA791	CH3-	H ₃ CO Br—⟨¯)—;	Н	СНЗ	Н	Н
XA792	CH3-	H ₃ CO Br	Н	СНЗ	Н	Н
XA793	CH3-	H ₃ CO_Br	Н	СНЗ	н	Н
XA794	СН3-	H₃CO-⟨SH	Н	СНЗ	Н	Н
XA795	CH3-	Br → H₃CO	Н .	СНЗ	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA796	СН3-	Br, H₃CO-⟨¯¯⟩}	Н	снз	Н	н
XA797	CH3-	H ₃ CO >	Н	снз	н	н
XA798	СН3-	OCH ₃	Н	снз	н	Н
XA799	CH3-	CN-C>OCH₃	Н	снз	н	Н
XA800	СН3-	H ₃ CO >	Н	СНЗ	н	Н
XA801	СН3-	H ₃ CO N-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СНЗ	н	Н
XA802	CH3-	OCH ₃	Н	снз	н	Н
XA803	СН3-	F-(\$\frac{F}{2}\frac{1}{2}	Н	снз	н	Н
XA804	CH3-	OCH ₃ F-∕}-} F	Н	СНЗ	Н	Н
XA805	CH3-	H₃CO-{∑F F	Н	СНЗ	н	Н
XA806	CH3	OCH ₃ F-{_}} OCH ₃	Н	СНЗ	Н	H .
XA807	СН3-	OCH ₃ H ₃ CO-{}-{ OCH ₃	Н	СНЗ	Н	Н
XA808	CH3-	CI—⟨}; CI	Н	СНЗ	Н	Н
XA809	СН3-	OCH ₃ CI-__\{ CI	Н	СНЗ	Н	Н
XA810	CH3-	CI H₃CO-⟨_}; CI	H	СНЗ	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA811	СН3-	OCH ₃	н	СНЗ	н	н
XA812	СН3-	H ₃ CO-{_>-} OCH ₃	Н	СНЗ	Н	н
XA813	CH3-	OCH ₃	Н	СНЗ	н	н
XA814	СН3-	H ₃ CO	Н	СНЗ	Н	Н
XA815	СН3	H3CO-{_}-{_}-{_}-{_}-{_}-{_}-{_}-{_}-{_}-{_}	Н	снз	Н	Н
XA816	СН3-	OCH ₃ \	Н	СНЗ	Н	Н
XA817	СН3	H ₃ CO	н	СНЗ	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA818	СН3-	н₃со-⟨∑-⟨	Н	СНЗ	н .	н
XA819	снз-	OCH ₃	Н	снз	н	Н
XA820	снз-	H ₃ CQ	Н	снз	Н	Н
XA821	СН3-	н₃со-⟨	Н	снз	Н	Н
XA822	СН3-	<u></u>	Н	снз	н	Н
XA823	снз-	<u></u>	н	снз	Н	Н
XA824	СН3-	F-{\}-{\}-{\}-{\}	Н	СНЗ	н	Н
XA825	СН3-		Н	СНЗ	н	Н
XA826	СН3-		Н	СНЗ	н	Н
XA827	СН3-	F-(-)	Н	СНЗ	н	Н
XA828	СН3-	<u></u>	Н	СНЗ	Н	н
XA829	СН3-	\$ \ \$	H	СНЗ	Н	Н
XA830	СН3-	F-()-()	Н	СНЗ	Н	Н
XA831	СН3-		Н	СНЗ	Н	Н
XA832	снз-		Н	СНЗ	Н	н

No.	R1	R2	R3	R4	R5	R6
XA833	СН3-	(CYN H	Н	СНЗ	Н	Н
XA834	СН3-		Н	СНЗ	Н	Н
XA835	СН3-	i Si	Н	снз	Н	Н
XA836	СН3-	TH	Н	снз	Н	Н
XA837	СН3-	, CY	Н	СНЗ	Н	Н
XA838	СН3-	Çî.	Н	СНЗ	Н	н
XA839	CH3-		н	СНЗ	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA840	СН3-	O.	Н	СН3	н	Н
XA841	СН3-	Č;	Н	СНЗ	н	Н
XA842	снз-	'03	Н	снз	н	н
XA843	СН3-	,00	н	СНЗ	н	н
XA844	СН3-	Ç.	Н	СНЗ	н	Н
XA845	CH3-	CI\$-1	н	СНЗ	н	Н
XA846	снз-		Н	СНЗ	н	н
XA847	СН3-	Ū;	н	СНЗ	н	Н
XA848	снз-	TOI?	н	СН3	н	Н
XA849	снз-	,CI}	н	СНЗ	н .	Н
XA850	снз-		н	СНЗ	H	Н
XA851	СН3-	CT _I	Н	снз	Н	Н
XA852	CH3-		Н	снз	Н	Н
XA853	снз-		н	снз	н	н
XA854	СН3-	, CY	н	снз	Н	н
XA855	CH3-	Ţŗ.	н	СНЗ	Н	н
XA856	снз-	OT,	н	СНЗ	Н .	Н
XA857	снз-	Ž N, N, N,	Н	СН3	H	Н
XA858	снз-	TIN N	Н	СН3	Н	н
XA859	снз-		Н	снз	Н	Ξ
XA860	СН3-	Ö.	Н	СНЗ	н	Н

No.	R1	R2	R3	R4	R5	R6
XA861	снз-	'TN	н	снз	н	Н
XA862	СН3-	, CTO	Н	снз	Н	н
XA863	СН3-		Н	снз	Н	Н
XA864	СН3-	(Is ^N →	Н	снз	н	н
XA865	СН3-	Ţ,	Н	снз	н	Н
XA866	СН3-	/ CI's	Н	снз	н	Н
XA867	СН3-	₁√Ûs	н	снз	Н	Н
XA868	СН3	ÇIN → N	Н	СНЗ	Н	Н
XA869	СН3-	CT.	Н	снз	Н	Н
XA870	СН3-		Н	СНЗ	Н	н
XA871	СН3-	, CT3,	н	снз	Н	Н
XA872	СН3-	,CT)	Н	СНЗ	Н	Н
XA873	СН3-	Ĉ.	Н	СН3	Н	Н
XA874	СН3-		Н	СНЗ	Н	Н
XA875	снз-		Н	CH3	н	Н
XA876	СН3-	CIÈ	н	CH3	Н	Н
XA877	снз-	, LTEN	Н	СНЗ	Н	Н
XA878	снз-	ÇT _s n	н	CH3	н	Н
XA879	снз-	Çr.	Н	СНЗ	Н	Н
XA880	СН3-	,CD,	Н	СНЗ	Н	Н
XA881	СН3-	(D)	Н	СН3	Н	Н
XA882	СН3-	Ğ;	Н	СНЗ	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA883	снз-	СН3-	Н	Qu	Н .	H
XA884	снз-	снзсн2-	Н		Н	Н
XA885	снз-	^ \	Н		н	Н
XA886	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н		Н	н
XA887	СН3-	\\\\	н		н	Н
XA888	снз-	人工	Н	Qu	н	Н
XA889	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н		Н	Н
XA890	снз-	Y'\	Н	Qu	н	н
XA891	снз-	^ ~```	н	Q	Н	Н
XA892	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Q	Н	Н
XA893	снз-	Xr _	Н	Q	Н	н
XA894	снз-	7	н	Qr	Н	Н
XA895	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н		Н	Н
XA896	снз-	人小	н		н	н .
XA897	снз–	^	Н	Q	н	н
XA898	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Q	Н	Н
XA899	СН3-	n-C8H17-	Н	Q	Н	Н
XA900	снз-		Н	Q	Н	Н
XA901	снз-	Q	Н	Qr	Н	Н
XA902	снз-		Н	Q	н	н
XA903	СН3-		Н	Q	Н	Н
XA904	снз-	$\triangleright \rightarrow$	Н		н .	Н

No.	R1	R2	R3	R4	R5	R6
XA905	СН3-	\Diamond	Н	Q	Н	н
XA906	СН3-		н	Qr	Н	н
XA907	CH3-		н	Q	Н	Н
XA908	CH3-		Н	Q	Н	н
XA909	CH3-		Н	Q	Н	H
XA910	CH3-		н	Q	Н	н
XA911	CH3-	_ \\	н		Н	Н
XA912	CH3-	F A	н	Q	H	Н
XA913	CH3-	F	Н	Q	Н	Н
XA914	CH3-	F-(н	Q	Н	Н
XA915	CH3-	F-(>-(Н	Q	н	н
XA916	CH3-	F	Н	Q	Н	Н
XA917	СН3	CI	Н	Q	н	н
XA918	СН3-	CI →	Н	Q	Н	Н
XA919	CH3-	C⊢ { }~{	н	Q	Н	н
XA920	CH3	C⊢ ()—{	Н	Q	Н	н
XA921	CH3-	CI—(н		н	Н
XA922	СН3-	Br ∰-{	н	Q	Н	н
XA923	СН3-	Br.	н	Q	н	н
XA924	СН3-	Br -{ }	Н	Q	н	Н
XA925	CH3-	Br- (){	Н	Q	н	н
XA926	CH3-	Br—⟨∑ı⊷∤	Н	Qi	Н	Н

No.	R1 .	R2	R3	R4	R5	R6
XA927	снз-	<u></u>	н	Q	н	Н
XA928	снз-	├	н	Qu	Н	Н
XA929	снз-	├ ────	н	Qu	Н	н
XA930	СН3-	CH₃	Н	Qu	н	Н
XA931	снз-	H ₃ C —}	Н		н	Н
XA932	СН3-	H₃C-⟨}-{	н		н	Н
XA933	СН3-	C ₂ H ₅ -{_}	н		н	Н
XA934	СН3-	n-C₃H ₇ -∕}	Н		н	Н
XA935	СН3-	n-C₄H ₉ -∕{_}-{	Н		н	Н
XA936	СН3-	ОН	Н		н	Н
XA937	СН3-	HO —>	н		н	н
XA938	СН3-	но-⟨¯⟩-⊰	н		Н	Н
XA939	СН3-	OCH₃ <	Н	Qu	н	Н
XA940	СН3-	H₃CO ——	Н		н	Н
XA941	CH3-	H₃CO - {_}	Н		н	н
XA942	СН3-	H₃CO-{\rightarrow}-{\rightarr	н		н	Н
XA943	снз-	H ₃ CO-{\rightarrow}\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Qu	Н	н
XA944	СН3-	OC ₂ H ₅	Н	Q	Н	Н
XA945	СН3-	C ₂ H ₅ O	Н	Qu	н	H .
XA946	СН3-	C ₂ H ₅ O-{	H _.	Q	Н	Н
XA947	СН3-	n-C ₃ H ₇ O-{}-{	Н	Qi	Н	Н
XA948	снз-	n-C ₄ H ₉ O-{}-{	н	Q	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA949	снз-	NO ₂	Н		н	Н
XA950	СН3-	O ₂ N	н		н	Н
XA951	CH3-	02N-{}	Н		Н	н
XA952	СН3-	CN S—∤	н	Qu	н	Н
XA953	снз-	NC —∤	Н	Qu	н	Н
XA954	снз-	NC-{}-{	н	Qu	Н	н
XA955	CH3-	CF₃	н	Qu	Н	н
XA956	СН3-	F ₃ C	H .	Qu	Н	н
XA957	снз-	F ₃ C-{	н	Qu	н .	Н
XA958	снз-	COOH	Н	Qu	н	Н
XA959	снз-	HOOC	Н	Qu	Н	Н
XA960	СН3-	HOOC-{}	н	Qu	н	н
XA961	CH3-	CO₂Me	Н	Qu	Н	н
XA962 -	снз-	MeO ₂ C	н	Q	Н	Н
XA963	СН3-	MeO ₂ C-{}	н		н	Н
XA964	СН3-	CO₂Et	Н	Qu	н	н
XA965	СН3-	EtO ₂ C	Н		н	Н
XA966	снз-	EtO ₂ C-{	Н		н	н
XA967	СН3-	SMe	Н		н	Н
XA968	СН3-	MeS	Н	Qu	Н	Н
XA969	снз-	MeS-{_}	Н	Q	Н	Н
XA970	СН3-	SO₂Me	Н	Q	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA971	снз-	MeO ₂ S —∤	Н		н	Н
XA972	снз-	"	Н	Qu	Н	н
XA973	снз-	NH ₂	Н	Qu	Н	н
XA974	снз-	H ₂ N →	Н	Qu	н	Н
XA975	СН3-	H_2N	Н	Qu	н	H
XA976	СН3-	NMe ₂	Н	Qi	Н	н
XA977	снз-	Me ₂ N	Н	Qu	н	н
XA978	СН3-	Me ₂ N-√	н	Qu	н	н
XA979	снз-	CN-C	н	Qu	Н	н
XA980	снз-	Cn-C)	н	Qu	н	Н
XA981	снз-		Н		н	Н
XA982	снз-		н	Qi	Н	Н
XA983	снз-	O-Q	н	Q	н	Н
XA984	СН3-	N-()-i	н	Q	н	н
XA985	снз-		Н	Q.,	н	н
XA986	СН3-	<u></u>	Н		Н	Н
XA987	СН3-		Н		н	Н
XA988	снз-	H ₃ CN N-	Н		н	Н
XA989	СН3-	H ₃ CN N-	н	Q.	н	н
XA990	снз-	H₃CN N-{}-{	Н	Q	н	н
XA991	снз-	H ₃ C CH ₃	Н	Q.	н	н
XA992	снз-	H ₃ C-{\bigcirc}-{\bigcirc}	Н	Q	Н	н

No.	R1	R2	R3	R4	R5	R6
XA993	СН3-	CH ₃ → H ₃ C	Н		н	Н
XA994	СН3-	CH ₃ CH ₃	Н		н	Н
XA995	СН3-	H ₃ C	Н		Н	Н
XA996	СН3-	H₃C —}—∤ H₃C	Н	Qu	н	Н
XA997	СН3-	F F	Н		н	Н
XA998	снз-	F———	н	Q	Н	н
XA999	СН3-	F F	Н		Н	н
XA1000	СН3-	F F	Н	Q	Н	н
XA1001	СН3-	F———	Н	Q	н	н
XA1002	СН3-	F F	н	Q	н	Н
XA1003	СН3	CI_CI	H _.	Q	Н	Н
XA1004	СН3-	CI—CI	н	Q	н	н

No.	RI	R2	R3	R4	R5	R6
XA1005	СН3-	CI CI	Н	Q	Н	Н
XA1006	СН3-	CI CI	Н	Qi	Н	Н
XA1007	СН3-	CI CI	Н		Н	Н
XA1008	СН3-	CI	Н		Н	Н
XA1009	СН3-	H₃CO_OCH₃	н		H	н
XA1010	СН3-	OCH₃ H₃CO-⟨∑)—;	н	Qu	Н	Н
XA1011	СН3-	OCH ₃ H ₃ CO	Н	Qi	Н	Н
XA1012	СН3-	OCH ₃ OCH ₃	н	Qu	Н	Н
XA1013	СН3-	H ₃ CO-⟨	н	Qu	Н	Н
XA1014	СН3-	H₃CO H₃CO	н	Qu	н	Н

No.	R1	R2	R3	R4	R5	R6
XA1015	СН3-	F_OCH₃	н	Q	Н	н
XA1016	СН3-	OCH ₃	Н		Н	Н
XA1017	снз-	OCH ₃	Н		Н	Н
XA1018	снз-	OCH ₃	Н		Н	Н
XA1019	СН3-	OCH ₃ F	Н		Н	Н
XA1020	СН3-	OCH₃ F	Н		н	Н
XA1021	СН3-	H ₃ CO F—	Н	Q	н	Н
XA1022	снз-	H ₃ CO F	н	Q	н	Н
XA1023	СН3-	H ₃ CO_F →	Н	Q	н	н
XA1024	СН3-	H₃CO-⟨S	Н	Q	Н	Н
XA1025	СН3-	F H₃CO	Н	Q.	Н	Н
XA1026	СН3-	H₃CO-⟨}	Н	Q	н	Н

No.	R1	R2	R3	R4	105	
XA1027		CI_OCH₃	Н		R5	R6 H
XA1028	СН3-	CI—(☐)—;	Н	Q	н	Н
XA1029	СН3-	OCH ₃ CI	Н	Q	Н	Н
XA1030	СН3-	OCH ₃	н		Н	Н
XA1031	СН3-	H ₃ CO CI—	H	Q	н	н
XA1032	СН3-	H ₃ CO	Н	Q	н	н
XA1033	СН3-	H₃CO_CI	Н	Q	Н	н
XA1034	СН3-	H ₃ CO-{\bigcirc}-{\}	Н	Q	Н	н
XA1035	СН3-	H ₃ CO	Н	Q	н	н
XA1036	СН3-	CI H ₃ CO-	Н		н	Н

No.	R1	R2	R3	R4	R5	R6
XA1037	CH3-	F_CH ₃	Н	Q	Н	Н
XA1038	СН3-	CH ₃ F—{}	н	Q	н	Н
XA1039	СН3-	CH ₃	Н	Q	н	н
XA1040	СН3-	CH ₃	Н	Q	н	Н
XA1041	СН3-	H ₃ C F-\	Н	Q	Н	Н
XA1042	СН3-	H ₃ C F	Н	Q	н	Н
XA1043	СН3-	H ₃ CF	н	Q	Н	Н
XA1044	СН3-	H ₃ C-⟨¯¯ <mark></mark> ≻→	н	Q	Н	Н
XA1045	СН3-	F H₃C	Н	Q	Н	Н
XA1046	СН3-	F H₃C- H₃C-	н	Qi	H	Н
XA1047	СН3-		Н	Qi	Н	Н
XA1048	СН3-	OCH₃ Br—⟨¯¯)—;	н	Q	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1049	снз-	OCH ₃ Br	Н	Q	Н	Н
XA1050	СН3-	OCH ₃	H	Q	Н	н
XA1051	СН3-	H₃CO Br—⟨¯¯)—ॄर	Н	Q	Н	Н
XA1052	СН3-	H ₃ CO Br	Н	Q	Н	Н
XA1053	СН3-	H₃CO_Br	Н	Q	Н	Н
XA1054	СН3-	Br H₃CO-⟨S	Н	Q	н	н
XA1055	СН3-	Br → H ₃ CO	Н	Q	Н	н
XA1056	СН3-	Br, H₃CO-⟨	н	Q	Н	н
XA1057	СН3-	H ₃ CO >	Н	Q	Н	Н
XA1058	СН3-	OCH ₃	Н	Qu	Н	Н

No.	R1	R2	R3	104	155	
XA1059		CN-⟨_}-OCH		R4	R5 H	R6 H
XA1060	СН3-	H ₃ CO >	Н	Q	н	Н
XA1061	СН3-	H ₃ CO	н		Н	Н
XA1062	СН3-	OCH ₃	н		Н	н
XA1063	СН3-	F—() F	н		H	Н
XA1064	СН3-	OCH ₃ F—{} F	Н	Q	н	н
XA1065	СН3-	H₃CO-{_}{};	Н	Q	н	н
XA1066	СН3-	OCH ₃ F-\(\) OCH ₃	Н	Q	н	Н
XA1067	Снз-	H ₃ CO-{_>-} OCH ₃	Н	Q	Н	Н
XA1068	СН3-	CI	Н	Q	н	Н
XA1069	СН3-	CI	Н	Q	н	Н
XA1070	СН3-	H₃CO-{_}} CI	Н	Q	н	н

No.	R1	R2	R3	R4	R5	R6
	CH3-	OCH ₃ CI—() OCH ₃	н	Q	Н	Н
XA1072	СН3-	H ₃ CO-(_)-{ OCH ₃	Н		Н	н
XA1073	СН3-	OCH ₃	н	Qu	н	Н
XA1074	СН3-	H ₃ CO	Н	Qu	н	н
XA1075	СН3-	H₃CO- ⟨ }- ⟨ }-{	Н		н	Н
XA1076	СН3	OCH ₃ \	Н		Н	н
XA1077	СН3-	H ₃ CO , t	Н		н	Н
XA1078	СН3-	H₃CO-⟨∑)-⟨∑	Н	Q	н .	н
XA1079	СН3-	OCH ₃	Н		н	Н
XA1080	СН3-	H ₃ CO	н		H	Н

No.	R1	R2	R3	R4	R5	R6
XA1081	снз-	H ₃ CO-<	н		Н	Н
XA1082	CH3-		Н	Qu	н	Н
XA1083	СН3-		н	Qu	Н	н
XA1084	СН3-	F-{_}-{_}-{_}-	н	Q	Н	Н
XA1085	СН3-		н	Qx	Н	H
XA1086	СН3-		Н	Qr	Н	н
XA1087	СН3-		Н	Q	Н	н
XA1088	СН3-	Ø-Ø	Н	Q	Н	Н
XA1089	СН3	Ò - Ò	Н	Q	Н	н
XA1090	снз-		н	Q	н	Н
XA1091	СН3-	CO .	н .	Qr	н	н
XA1092	снз-		Н	Qu	Н	Н
XA1093	снз-	CY,	н	Q	н	Н
XA1094	снз-		н .	Q	Н	Н
XA1095	СН3-		Н.	Q	н	Н
XA1096	снз-		Н	Qu	н	н
XA1097	СН3-	,CT _R	н	Qu	Н	Н
XA1098	СН3-	Çî	Н	Qi	Н	Н
XA1099	СН3-		Н		н	н
XA1100	СН3-	CT)	Н		н	Н
XA1101	СН3-		Н		н .	Н
XA1102	СН3-		Н		Н	н

No.	R1	R2	R3	R4	R5	R6
XA1103	СН3-	,CC	Н			н
XA1104	СН3-	Ţ.	Н		н	Н
XA1105	СН3-	(T)-1	н		Н	н
XA1106	СН3-		Н		н	Н
XA1107	снз-	Ğ.	Н	Q	н .	H H
XA1108	СН3-	TOP	Н	Q	Н	Н
XA1109	СН3-	,CI\$	Н	<u>Q</u>	н .	Н
XA1110	СН3-	Ţ\$	н	Qu_	н	н
XA1111	СН3-		Н		Н	Н
XA1112	СН3-		Н		Н	Н
XA1113	снз-	TON	Н	Q	Н	Н
XA1114	СН3-	, IT'N	Н	Qi	н	н
XA1115	СН3-	Ţŗ.	н	Qu	Н	н.
XA1116	СН3-	OLN' Y	н	Qu	н	н
XA1117	СН3-	Č,	н	Q	Н	Н
XA1118	снз-	T N	Н	Q	н	Н
XA1119	снз-	(Total	Н		Н	н
XA1120	СН3-	Ž _N	Н	Qi	Н	Н
XA1121	снз-	' CIN	Н	Q	Н	Н
XA1122	СН3-	, CIN	н	Qu	н	Н
XA1123	снз-	Ţ,	Н	Qu	н	Н
XA1124	СН3-	() s	Н		н	Н

No.	R1	R2	R3	R4	R5	R6
XA1125	СН3-	Ţ,	н	Qu	н	н
XA1126	СН3-	'CI's	н	Qu	н	н
XA1127	снз-	v CIS	Н	Qr	н	Н
XA1128	СН3-	Ţs s	н	Q	н	Н
XA1129	СН3-		н	Q	Н	H
XA1130	снз-	Ĩ,	н	Q	Н	Н
XA1131	снз-	TT)	н	Q	н	н
XA1132	СН3-	,CC	н	Q	н	Н
XA1133	CH3-	Č.	н	Q	н	Н
XA1134	CH3-	CT,N	Н	Q	Н	Н
XA1135	CH3	ĈŢ,'n	Н	Q	н	н
XA1136	CH3-	"TJ"	Н	Q	н	Н
XA1137	СН3-	, CJEN	н		н	н
XA1138	СН3-	Ž,	Н	Q	Н	н
XA1139	СН3-	Ţ,	Н		Н	Н
XA1140	снз-	,CC	Н		н	Н
XA1141	CH3-	T	Н		н	н
XA1142	CH3-	Ğ;	Н	Q	н	Н
XA1143	CH3-	СН3-	н	Ŷ,	Н	Н
XA1144	CH3-	снзсн2-	Н	<u>L</u> ,	н	н
XA1145	СН3-	<u></u>	Н	<u>گ</u>	н	Н
XA1146	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	با	н	Н

No.	R1	R2	R3	R4	R5	R6
XA1147	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	٨	н	н
XA1148	СН3-	\r	Н	Å,	Н	Н
XA1149	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Ŷ,	Н	Н
XA1150	CH3-	*	Н	Ŷ,	Н	Н
XA1151	снз-	^	Н	<u></u>	н	H
XA1152	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	<u></u>	Н	н
XA1153	СН3-	Xx	н		н	н
XA1154	снз-	7	н		Н	Н
XA1155	СН3-	\\\\	н		н	Н
XA1156	снз-	人、	Н		н	н
XA1157	снз-	^	Н		Н	н
XA1158	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н		Н	н
XA1159	СН3-	n-C8H17-	Н		Н	Н
XA1160	СН3-		Н		Н	Н
XA1161	снз-		Н	Å,	н	Н
XA1162	СН3-		Н	· •	н	Н
XA1163	СН3-		н	Ŷ,	Н	Н
XA1164	СН3-	\longrightarrow	н	Ŷ,	н	Н
XA1165	СН3-	\Diamond	Н		н	Н
XA1166	СН3-	$\bigcirc \!$	Н	•	н	Н
XA1167	СН3-	$\bigcirc \dashv$	Н	•	н	Н
XA1168	СН3~	\bigcirc -I	Н	Ŷ,	Н	н .

No.	R1	R2	R3	R4	R5	R6
XA1169	снз-	<u></u>	Н	Ŷ,	Н	Н
XA1170	СН3-		Н	Å,	Н	Н
XA1171	снз-	<u></u>	Н	<u>گ</u> ر	Н	Н
XA1172	снз-	<u></u>	н	Å,	Н	н
XA1173	CH3-	<u></u>	Н	<u>گ</u> ې	Н	Н
XA1174	снз-	F-()-{	Н	Ŷ,	Н	Н
XA1175	снз-		Н	<u></u>	Н	н
XA1176	СН3-	F—Qin-{	Н	<u></u>	Н	н
XA1177	СН3	CI C	Н	0	н	н
XA1178	СН3	CI	Н		Н	н
XA1179	снз-	c⊢ ()→{	н		Н	н
XA1180	СН3-	c⊢ ()—∤	H	<u></u>	Н	н
XA1181	снз	CH	Н		н	Н
XA1182	СН3-	Br	Н	<u></u>	Н	Н
XA1183	СН3-	Br →	Н	<u></u>	Н	Н
XA1184	снз–	Br─∰	Н	<u></u>	Н	н
XA1185	снз-	Br -⟨ }-	Н	Ŷ,	н	Н
XA1186	снз-	Br—⟨∑m∤	н	Ŷ,	н	Н
XA1187	снз-		Н	Ŷ,	Н	Н
XA1188	снз-		H .	Å,	н	Н
XA1189	снз-	⊢	Н	Ŷ,	Н	Н
XA1190	СН3-	CH₃ ←	Н	<u>ڳ</u>	н	Н

XA1191 CH3- H3C H <t< th=""><th>No.</th><th>R1</th><th>R2</th><th>R3</th><th>R4</th><th>R5</th><th>Ino</th></t<>	No.	R1	R2	R3	R4	R5	Ino
XA1193 CH3- C2H5- H Image: Control of the control			H ₃ C		Å,		R6 H
XA1194 CH3- PC3H7 H	XA1192	СН3-	H ₃ C-{}-{	Н	Ů,	н	н
XA1195 CH3- PC4Hg ← H H	XA1193	СН3-		н	Ů,	н	Н
XA1196 CH3- CH3- HO H	XA1194	СН3-	n-C ₃ H ₇ {}{	н	Å,	Н	н
XA1196 CH3- HO H <td< td=""><td>XA1195</td><td>СН3-</td><td>n-C₄H₉{}-{</td><td>Н</td><td>Ŷ,</td><td>н</td><td>Н</td></td<>	XA1195	СН3-	n-C ₄ H ₉ {}-{	Н	Ŷ,	н	Н
XA1197 CH3- H Image: CH3- H	XA1196	СН3-		н	Ů,	н	н
XA1199 CH3- COCH3 H	XA1197	СН3	HO	н	<u>گ</u> ہ	н .	н
XA1199 CH3- CH3- H <	XA1198	СН3-	" '	Н	Î,	Н	Н
XA1200 CH3- CH3- H <	XA1199	СН3-		Н	Ŷ,	Н	Н
XA1202 CH3- H₃CO H <	XA1200	СН3-	H ₃ CO	н	Ŷ,	Н	Н
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	XA1201	СН3-	H ₃ CO-{}-{	н	1	н	Н
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	XA1202	СН3-	H ₃ CO-{}	н	Ů,	н	н
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	XA1203	СН3-		н	Î,	н	н
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	XA1204	снз-	⟨ ;	Н	Ŷ,	н	Н
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	XA1205	СН3-	C ₂ H ₅ O	н .	0	н	Н
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	XA1206	снз-	C ₂ H ₅ O-{	н		н	Н
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	XA1207	снз-	n-C ₃ H ₇ O-{}-{	Н	Ŷ,	н	н
XA1209 CH3-	XA1208	СН3-		Н		н	н
XA1210 CH3-	XA1209	СН3-		Н	Å,	н	Н
	XA1210	СН3		Н	Î,	н	Н
XA1212 CH3- CN H H	XA1211	СН3-		Н		Н	Н
	XA1212	СН3-		Н	Ŷ,	н	Н

No.	R1	R2	R3	R4	R5	R6
XA1213	снз-	R2 NC	н	<u></u>	н	Н
XA1214	снз-	NC-{}	Н	<u></u>	Н	Н
XA1215	снз-	CF ₃	н	Å,	Н	Н
XA1216	снз-	F ₃ C:	н	Å,	н	н
XA1217	СН3~	F ₃ C-{}-{	Н	Å,	н	н
XA1218	снз-	COOH	Н	Å,	Н	Н
XA1219	СН3-	HOOC	н	Å,	н	н
XA1220	СН3-	HOOC-{}-{	н	Ŷ,	н	н
XA1221	снз-	CO ₂ Me	н.	Ŷ,	н	н
XA1222	СН3-	MeO ₂ C	н .	Ŷ,	н	н
XA1223	СН3-	MeO ₂ C-{}-{	Н	Î,	н	н
XA1224	СН3-	CO ₂ Et	н	Ŷ,	Н	н
XA1225	СН3-	EtO ₂ C	н	Ŷ,	н	н
XA1226	CH3-	EtO ₂ C-{}	н	Ŷ,	н	н
XA1227	снз-	SMe	Н	l,	Н	н
XA1228	СН3-	MeS 	н	ئى ا	н	н
XA1229	снз-	MeS-{}	Н	Ŷ,	н	Н
XA1230	снз-	SO₂Me	Н	Ŷ,	н .	н
XA1231	снз-	MeO ₂ S <u></u>	Н	Ŷ,	Н	н
XA1232	СН3-	MeO ₂ S-{{}	Н	Ĵ,	н	Н
XA1233	СН3-	NH ₂	Н	Å,	н	н
XA1234	СН3-	H ₂ N	Н	Ŷ,	н	Н

No.	R1	R2	R3	R4	R5	R6
XA1235	снз-	H_2N	H [']	Ŷ,	н	Н
XA1236	СН3-	NMe ₂	Н	Å,	Н	Н
XA1237	СН3-	Me ₂ N √{	Н	Î,	Н	Н
XA1238	CH3-	Me ₂ N-\\\	Н	Ŷ,	н	Н
XA1239	СН3	CN-S	н	Ŷ,	Н	Н
XA1240	СН3-		Н	Ŷ,	H	Н
XA1241	СН3-		Н	Ŷ,	Н	Н
XA1242	СН3-	___________________	н	<u> </u>	н	Н
XA1243	СН3-	_N	Н	Ŷ,	Н	Н
XA1244	снз-	N-C>-i	Н	<u></u>	Н	Н
XA1245	СН3-		Н	Ŷ,	Н	Н
XA1246	CH3-		н	Ŷ,	Н	Н
XA1247	СН3-	O_N-{_}}	Н	l,	Н	н
XA1248	CH3-	H ₃ CN N—	н	Î,	Н	Н
XA1249	СН3-	H3CN N-	H	Î,	H	Н

No.	R1	R2	R3	R4	R5	R6
XA1250	СН3-	H ₃ CN_N-{_}	н	l,	н	Н
XA1251	СН3-	H ₃ C_CH ₃	Н	<u></u>	Н	Н
XA1252	СН3-	H ₃ C-{\bigcirc}-{\bigcirc}	н	<u></u> ,	Н	Н
XA1253	СН3-	CH₃ H₃C	Н	Î,	н	Н
XA1254	Сӊ3	CH ₃ CH ₃	н	Ŷ,	н	н
XA1255	СН3-	H ₃ C H ₃ C-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	<u></u> ,	н	н
XA1256	СН3-	H₃C H₃C	Н	<u></u> <u>,</u>	н	Н

No.	R1	R2	R3	R4	R5	R6
XA1257	СН3-	F F	Н	Ŷ,	н	Н
XA1258	СН3-	F F	Н	<u>,</u>	Н	н
XA1259	СН3-	F F	Н	Î,	Н	Н
XA1260	СН3-	F F	Н	Î,	н	н
XA1261	СН3-	F———	Н	Å,	Н	н
XA1262	СН3-	F F	Н	Ŷ,	Н	Н
XA1263	СН3-	CI_CI	Н	Ŷ,	Н	Н
XA1264	СН3-	CI—CI	Н	Ŷ,	Н	н
XA1265	СН3	CI	н	2,	Н	Н
XA1266	СН3-	CI CI	н	Î,	Н	Н
XA1267	СН3		н	Ŷ,	н	Н
XA1268	СН3	CI CI	Н	<u>ڳ</u>	Н	н
XA1269	СН3	H ₃ CO_OCH ₃	Н	<u>گ</u>	н	н
XA1270	СН3-	OCH ₃	н	<u></u> <u>,</u>	Н	н
XA1271	СН3-	OCH ₃	Н	<u></u> <u>L</u> ,	н	Н

No.	R1	R2	R3	R4	R5	R6
XA1272	СН3~	OCH ₃	Н	Ì,	Н	Н
XA1273	СН3-	H ₃ CO	Н	Î,	Н	Н
XA1274	СН3-	H₃CO H₃CO	н	Î,	н	Н
XA1275	СН3-	F_OCH ₃	Н	l,	н	Н
XA1276	СН3-	OCH ₃	Н	Ŷ,	Н	Н
XA1277	СН3-	OCH ₃	H -	Ŷ,	H	Н
XA1278	снз-	OCH ₃	Н	<u>L</u> ,	H.	Н

No.	R1	R2	R3	R4	R5	R6
XA1279	СН3-	OCH ₃	Н	l,	Н	Н
XA1280	СН3-	OCH ₃	н	<u>گ</u> ,	н	Н
XA1281	СН3-	H ₃ CO	н	<u>,</u>	Н	Н
XA1282	СН3-	H₃CO F	Н	Ŷ,	Н	Н
XA1283	СН3-	H₃CO_F	н	Ŷ,	н	н
XA1284	CH3-	H₃CO-⟨SH	Н	Ŷ,	Н	Н
XA1285	СН3	H₃CO F	Н	Ŷ,	Н	Н
XA1286	СН3-	H₃CO-⟨¯¯ <mark>></mark> →	Н	Ŷ,	Н	Н
XA1287	СН3-	CI_OCH₃	Н	Î,	Н	н
XA1288	СН3-		н	Ŷ,	Н	н
XA1289	СН3	OCH₃ CI	Н	Î,	н	Н
XA1290	СН3-	OCH₃ CI	н	Î,	н	Н
XA1291	СН3-	٠., ٠	Н	Ŷ,	Н	н ,
XA1292	СН3-	CI	н	l _y	Н	Н
XA1293	СН3-	H₃CO_CI	н	Å,	н	Н

No.	R1	R2	R3	R4	R5	R6
XA1294	СН3-	H₃CO-{}	Н	١,	Н	Н
XA1295	СН3-	CI → H ₃ CO	Н	Ŷ,	Н	Н
XA1296	СН3-	CI H₃CO-⟨¯¯}—{	Н	Ŷ,	Н	Н
XA1297	СН3	F_CH ₃	Н	l,	Н	н
XA1298	СН3-	F—{CH ₃	Н	<u></u>	н	Н
XA1299	СН3-	CH₃ F	Н	Ŷ,	н	н
XA1300	СН3	CH₃ F	н	Ŷ,	н	н

No.	R1	R2	R3	R4	R5	R6
XA1301	СН3-	H ₃ C F—{}	Н	Ŷ,	н	Н
XA1302	СН3-	H₃C F	Н	Å,	Н	Н
XA1303	СН3	H ₃ C F	н	Î,	Н	Н
XA1304	СН3-	H ₃ C-⟨ F	Н	Î,	н	Н
XA1305	снз-	H ₃ C	Н	Ŷ,	Н	Н
XA1306	СН3-	H₃C———	Н	<u>Ļ</u> ,	Н	Н
XA1307	СН3-	Br_OCH₃ →	н	<u>}</u> ,	н	н
XA1308	СН3-	OCH ₃ Br—∰	Н	Î,	н	Н
XA1309	СН3	OCH₃ Br	Н	L,	н	н
XA1310	СН3-	OCH ₃ ⇒ Br	Н	Ŷ,	Н	н
XA1311	СН3-	H₃CO Br—	Н	l,	Н	н
XA1312	СН3-	H₃CO Br	Н	l,	н	Н
XA1313	СН3-	H ₃ CO_Br	н	<u>ا</u> ر	Н	Н
XA1314	СН3-	Br H₃CO-⟨□⟩—;	Н	Ĵ,	Н	Н
XA1315	СН3-	Br → H₃CO	Н	Î,	н	Н

No.	R1	R2	R3	R4	R5	R6
XA1316	СН3-	Br H₃CO-⟨	Н	Ŷ,	Н	н
XA1317	СН3-	H ₃ CO >	Н	<u></u> ,	Н	Н
XA1318	СН3-	OCH ₃	Н	١,	Н	,H
XA1319	СН3-	N-Ch-OCH3	Н	L _y	H	Н
XA1320	СН3-	H ₃ CO > N	Н	Å,	Н	Н
XA1321	СН3-	H ₃ CO N-(){	н	l,	н	н
XA1322	СН3-	OCH₃	Н	١,	н	Н

No.	R1	R2	R3	R4	R5	R6
XA1323		F—— F	Н	گ,	Н	Н
XA1324	СН3-	OCH ₃ F—{_}_{} F	Н	Ŷ,	Н	н
XA1325	СН3-	H₃CO-⟨_ <mark>></mark> -{ F	Н	l,	Н	Н
XA1326	СН3-	OCH ₃ F-{_}} OCH ₃	н	Ŷ,	н	Н
XA1327	СН3-	H ₃ CO-C	Н	l,	Н	н
XA1328	снз-	CI—CI	Н	Î,	Н	н
XA1329	СН3-	OCH ₃ CI	Н	Ŷ,	н	Н
XA1330	СН3-	H₃CO-⟨}{ CI	Н	Ŷ,	Н	н
XA1331	CH3-	OCH ₃ CI—() OCH ₃	Н	Ŷ,	Н	Н
XA1332	СН3	OCH ₃ H ₃ CO-{_}>-} OCH ₃	Н	Ŷ,	Н	Н
XA1333	СН3-	OCH ₃	н	Ŷ,	н	н
XA1334	СН3-	H ₃ CO	Н	l,	Н	Н
XA1335	СН3-	н₃со-⟨_>⟨_>-∤	Н	Ŷ,	Н	Н
XA1336	СН3-		Н	Ŷ,	Н	н
XA1337	СН3-	H ₃ CO ,	Н	l,	Н	н

No.	R1 ·	R2	R3	R4	R5	R6
XA1338	CH3-	н₃со-⟨∑>-⟨∑\	Н	Ŷ,	H ,	Н
XA1339	СН3-	OCH ₃	Н	Î,	н	Н
XA1340	СН3-	H ₃ CO	Н	١,	Н	Н
XA1341	СН3-	H ₃ CO-{	Н	Ŷ,	н	н
XA1342	СН3-	F	Н	Ŷ,	н	Н
XA1343	СН3-	F	Н	Î,	Н	Н
XA1344	СН3-	F-(Н	Î,	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1345	СН3-		н	Ů,	н	Н
XA1346	снз-		н	Ů,	Н	Н
XA1347	СН3-		Н	<u></u>	н	Н
XA1348	СН3-	Q- -	н	Ů,	н	Н
XA1349	снз-	\$\doldsymbol{\infty}	н	Ů,	Н	Н
XA1350	снз-		Н	Ŷ,	н	Н
XA1351	СН3-		Н	Ŷ,	Н	Н
XA1352	снз-	CC,	Н	<u></u>	Н	н
XA1353	снз-		H		Н	Н
XA1354	СН3-		Н	Å,	Н	Н
XA1355	СН3~		Н	<u></u>	Н	Н
XA1356	снз–		Н	9	н	Н
XA1357	снз-	,CT	н	Ŷ,	Н	Н
XA1358	снз–	Ŷ	н	Ŷ,	Н	н
XA1359	СН3-		Н	•	н	Н
XA1360	СН3-		Н	Ŷ,	Н	Н
XA1361	СН3-	Č;	H	Ŷ,	Н	Н
XA1362	СН3-		н	<u></u>	Н	Н
XA1363	СН3-	,CC)	Н	Ŷ,	Н	Н
XA1364	СН3-	Ç;	Н		н	Н
XA1365	СН3-		H .		Н	Н
XA1366	СН3-	CT;	Н	Ŷ,	н	Н

No.	R1	R2	R3	R4	R5	R6
XA1367	СН3-	Ţ Çış	н	Ů,	н	Н
XA1368	СН3-	TOS	Н	Î,	Н	н .
XA1369	СН3-	, (C) s	Н	Î,	Н	н
XA1370	снз-	Ğ.	н	, s	Н	Н
XA1371	CH3-	CZ,	Н	Ŷ,	Н	H
XA1372	CH3-	- Tr	Н	٨	Н	н
XA1373	СН3	"CT"	Н	Ŷ,	Н	н
XA1374	СН3-	, Cip	Н	Ŷ,	Н	н
XA1375	снз-	Ţŗ	Н	Q _f	н	Н
XA1376	СН3-	(CTN→1	Н	Ŷ,	н	Н
XA1377	СН3-	Ž, Š	Н	O	Н	Н
XA1378	СН3-	'C'N	Н	<u></u>	Н	Н
XA1379	СН3~	(I)	Н	Ŷ,	н	Н
XA1380	СН3-	Č.	Н	O.	н	Н
XA1381	СН3-	, Og	Н	Å,	Н	н
XA1382	снз-	, CO	Н	Ŷ,	Н	Н
XA1383	СН3-	ÇN,	Н		н.	Н
XA1384	СН3-	O's	Н	0 4	Н	Н
XA1385	СН3-	N S	Н	<u></u>	н	Н
XA1386	снз-	, O's	н	<u></u>	Н	Н
XA1387	СН3-	, Is	н	<u></u>	Н .	Н
XA1388	СН3-	ÇN, S	Н	Å,	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1389	СН3-		Н	Î,	Н	Н
XA1390	снз-	Ü,	н		Н	Н
XA1391	снз-	, C194	Н	l _y	Н	н
XA1392	СН3-	,CTM	н	<u></u>	Н	н
XA1393	СН3-	Ž3,	Н	Å,	н	Н
XA1394	СН3-	(T _N)	Н	Î,	Н	н
XA1395	снз-	CT3N	Н	Ů,	Н	Н
XA1396	снз-	, CL3,	Н	Ŷ,	H.	Н
XA1397	СН3-	'(CL ² N	Н	<u></u>	н	Н
XA1398	снз-	ÇTên	Н	Ů,	н	н
XA1399	снз-	Çr.	Н		Н	н
XA1400	снз-	,CC;	Н	٩	н	н
XA1401	снз-	~CC	Н	Å,	Н	Н
XA1402	снз-	Ö;	Н	Ŷ,	Н	Н
XA1403	СН3-	СН3-	СН3	н	н	Н
XA1404	снз-	СН3СН2-	СН3-	н	Н	Н
XA1405	снз-	/ \\	СН3-	н	н	Н
XA1406	СН3-	\uparrow	СН3-	н .	Н	н
XA1407	снз-	~ ~\	CH3-	Н	н	Н
XA1408	СН3-	\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	СН3-	Н	Н	н
XA1409	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	СН3-	Н	Н	Н
XA1410	СН3-	*	СН3-	Н	Н	Н

No.	R1	R2	R3	R4	R5	R6
24444		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			110	NO .
XA1411	СН3-		CH3-	Н	н	Н
XA1412	СН3-		СН3-	Н	Н	н
XA1413	снз-	>\\\\	СН3-	Н	н	н
XA1414	снз-	7	СН3-	Н	Н	н
XA1415	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	СН3-	Н	н	H
XA1416	СН3-	- L	снз-	Н	н	Н
XA1417	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	СН3-	Н	н	Н
XA1418	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	СН3-	Н	н	н
XA1419	СН3	n-C8H17-	СН3-	Н	н	н
XA1420	СН3-	L~~~	СН3-	н	Н	Н
XA1421	СН3-	Q	СН3-	Н	Н	н
XA1422	СН3-		СН3-	н	Н	Н
XA1423	СН3-		СН3-	Н	Н	Н
XA1424	CH3-	\triangleright	СН3-	Н	H	Н
XA1425	снз-	\Diamond	СН3-	н	н	Н
XA1426	СН3-		СН3-	Н	Н	Н
XA1427	СН3-		СН3-	н	н .	Н
XA1428	снз–		СН3-	Н	Н	Н
XA1429	СН3-	○ ≀	СН3-	н	Н	Н
XA1430	СН3-		СН3-	Н	Н	Н
XA1431	СН3		СН3-	н	н	н
XA1432	СН3-	F	СН3-	Н	н	Н

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No.	R1	R2	R3	R4	R5	R6
XA143	33 СН3-	<u></u> ;	СН3-	Н	Н	н
XA143	14 CH3-	F-{_}-{	СН3~	Н	н	н
XA143	5 CH3-	F-(>-{	СН3-	н	Н	Н
XA143	6 CH3-	F-{_}n.{	CH3-	н	Н	Н
XA143	7 СН3-	CI	СН3-	н	Н	н
XA1438	8 CH3-	CI	СН3-	н	н	н
XA1439	9 СН3-	C├ ─ }	СН3-	н	Н	н
XA1440	0 СН3-	C⊢(СН3-	н	н	н
XA1441		CI—(СН3-	н	н	н
XA1442	CH3-	Br	СН3-	Н	Н	н
XA1443	СН3-	Br.	СН3-	н	н	н
XA1444	СН3-	Br—{}	СН3-	Н	н	н
XA1445	CH3-	Br—{}	СН3-	Н	н	н
XA1446	СН3-	Br—(СН3-	Н	н	Н
XA1447	СН3-		СН3-	Н	н	н
XA1448	СН3-		СН3-	н	н	н
XA1449	СН3-	├ ──}	СН3-	н	н	Н
XA1450	СН3-	CH ₃	СН3-	н	Н	Н
XA1451	СН3-	H ₃ C	СН3-	Н	Н	н
XA1452	СН3-	H ₃ C-{	СН3-	н	Н	Н
XA1453	снз-	C ₂ H ₅ {	СН3-	Н	н	н
XA1454	СН3-	n-C ₃ H ₇ {	СН3-	н	Н	н
			·	L		

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No.	R1	R2	R3	R4	R5	R6
XA1455	СН3-	n-C ₄ H ₉ —{_}	СН3-	Н	н	н
XA1456	снз-	OH	СН3-	H	Н	н
XA1457	СН3-	HO →	СН3-	н	Н	н
XA1458	снз-	HO-{\bar{\bar{\bar{\bar{\bar{\bar{\bar	CH3-	Н	Н	н
XA1459	СН3-	OCH₃ ☐>─{	СН3-	н	н	н
XA1460	СН3-	H₃CO ————————————————————————————————————	СН3-	Н	Н	н
XA1461	CH3-	H₃CO-⟨}~{	СН3~	Н	Н	н
XA1462	снз-	H ₃ CO-{}	CH3-	Н	Н	н
XA1463	снз-	H ₃ CO-{\bigsym} \m\{	СН3-	Н	н	н
XA1464	снз-	OC ₂ H ₅	СН3-	Н	н	н
XA1465	снз-	C ₂ H ₅ O	СН3-	Н	Н	Н
XA1466	СН3-	C ₂ H ₅ O-{}	снз-	н	н	Н
XA1467	снз-	n-C ₃ H ₇ O-	CH3	н	н	Н
XA1468	снз-	n-C ₄ H ₉ O-	СН3-	н	н	н
XA1469	снз-	NO ₂	СН3-	н	Н	Н
XA1470	СН3-	O ₂ N	снз-	н .	н	н
XA1471	СН3-	O ₂ N-{_}-{	снз-	н	Н	Н
XA1472	снз-	CN →	снз-	н .	н	н
XA1473	снз-	NC	СН3-	н	Н	Н
XA1474	СН3-	NC-{}-{	СН3-	н	Н	Н
XA1475	СН3-	NH ₂	СН3-	Н	Н	Н
XA1476	СН3-	H ₂ Ñ →	CH3-	н	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1477	снз-	H ₂ N-{\bigcirc}{	CH3-	Н	Н	н
XA1478	снз-	NMe ₂	СН3-	н .	Н	н
XA1479	СН3-	Me ₂ N —→	СН3-	Н	Н	Н
XA1480	СН3-	Me ₂ N-{	CH3-	Н	Н	н
XA1481	СН3-		CH3-	Н	Н	Н
XA1482	СН3-		CH3-	Н	н	Н
XA1483	CH3-	(N-()-1	CH3-	Н	Н	н
XA1484	СН3		СН3-	Н	н	н
XA1485	СН3-		СН3-	н	н	н
XA1486	снз-	_\-_\-\	СН3-	Н	н .	н
XA1487	СН3-		СН3-	Н	н	н
XA1488	СН3-	o_n-{_}}	СН3-	н	Н	Н
XA1489	CH3-	o_N-{_}-}	СН3-	н	н .	н
XA1490	СН3-	H ₃ CN N-	СН3-	Н	н	н
XA1491	СН3-	H₃CN_N-⟨_}	СН3-	Н	Н	н
XA1492	СН3-	H₃CN_N-{_}-{	снз-	H	Н	н
XA1493	СН3-	OCH₃ F—{}	снз-	Н	н	н
XA1494	СН3-	OCH ₃	СН3-	Н	н	н
XA1495	снз-	OCH ₃	СН3-	Н	н	Н
XA1496	снз-		CH3-	Н	н	н
XA1497	СН3-		СН3-	Н	н	н
XA1498	СН3-	снз-	Н	Н	снз-	н

No.	R1	R2	R3	R4	R5	R6
XA1499	СН3-		Н	н	СН3-	Н
XA1500	снз-	/ _\	Н	н	СН3-	Н
XA1501	снз-	\\\\\	Н	н	СН3-	н
XA1502	СН3-	√	Н	Н	СН3-	н
XA1503	CH3-	人、	Н	Н	сн3-	H
XA1504	СН3-	\uparrow	Н	Н	снз-	H.
XA1505	снз-	7	Н	н	СН3-	н
XA1506	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н	СН3-	н
XA1507	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	СН3-	н
XA1508	CH3-	X	Н	Н	СН3-	н
XA1509	СН3-	7	Н	Н	СН3-	н
XA1510	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	СН3-	Н
XA1511	CH3-	J	н	Н	СН3-	н
XA1512	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	СН3-	н
XA1513	СН3-	Y~~~	Н	Н	СН3-	Н
XA1514	снз-	n-C8H17-	Н	Н	СН3-	Н
XA1515	СН3-	L	Н	н	CH3-	н
XA1516	СН3-	Q	Н	н	СН3-	Н
XA1517	СН3-		Н	Н	СН3-	Н
XA1518	СН3-		н	н	СН3-	Н
XA1519	СН3-	\rightarrow	Н	Н	СН3-	н
XA1520	снз-	\Diamond	н	Н	снз-	Н

No.	R1	R2	R3	R4	R5	R6
XA1521	снз-	\supset	Н	н	СН3-	н
XA1522	СН3-	\bigcirc \dashv	Н	Н	СН3-	Н
XA1523	снз-		Н	н	СН3-	Н
XA1524	СН3-	◯ ∤	н	н	СН3-	Н
XA1525	СН3-		H	н	СН3-	Н
XA1526	снз-		Н	Н	СН3-	н
XA1527	СН3-		Н	н	СН3-	н
XA1528	снз-	F	Н	Н	СН3-	н
XA1529	снз-	F-(-)1	Н	н	СН3-	H
XA1530	снз-	F—(Н	н	СН3-	Н
XA1531	снз-	F———In-{	Н	н	СН3-	Н
XA1532	СН3-	CI	Н	н	СН3-	Н
XA1533	снз-	CI →	Н	н	снз-	Н
XA1534	СН3-	C⊢ (_)—{	н	н	снз-	Н
XA1535	СН3-	c⊢(_>(Н	н	СН3-	н
XA1536	СН3-	CH	Н	н	СН3-	Н
XA1537	СН3-	Br ∰-∤	Н	н	снз-	Н
XA1538	CH3-	Br. —∤	Н	н .	СН3-	н
XA1539	СН3-	Br- (Н	н	снз-	Н
XA1540	CH3-	Br—	Н	Н	СН3	н
XA1541	CH3-	Br—⟨∑iii∮	Н	н .	снз-	Н
XA1542	СН3-		н	Н	сн3-	н .

No.	R1	R2	R3	R4	R5	R6
XA1543	СН3-	<u></u>	Н	Н	СН3-	Н
XA1544	снз-	├	н	H	СН3-	н
XA1545	снз-	CH₃	н	Н	СН3-	Н
XA1546	снз-	H ₃ C	Н	н	СН3-	Н
XA1547	снз-	H ₃ C-{}-{	н	Н	СН3-	Н
XA1548	СН3-	C ₂ H ₅ -{	н	н	СН3-	н
XA1549	СН3-	n-C ₃ H ₇ {_}	Н	н	СН3-	н
XA1550	снз-	n-C ₄ H ₉ {	Н	н	СН3-	Н
XA1551	СН3-	OH OH	н	н	СН3~	Н
XA1552	СН3-	HO —	Н	н .	СН3-	н
XA1553	СН3-	HO-{\bigcirc}	Н	н	СН3-	Н
XA1554	СН3-	OCH₃ <a>◯	н	н	СН3-	Н
XA1555	снз-	H₃CO ——;	Н .	н	СН3-	Н
XA1556	СН3-	H ₃ CO-{}	Н	Н	СН3-	н
XA1557	СН3-	H₃CO- (> -{	н	н	СН3-	Н
XA1558	СН3-	H ₃ CO-{\bigs\mu_\mid	Н	Н	CH3-	Н
XA1559	СН3-	OC ₂ H ₅	Н	Н	СН3-	Н
XA1560	СН3-	C ₂ H ₅ O	н	H	CH3-	Н
XA1561	СН3-	C ₂ H ₅ O-{	н	Н	СН3-	Н
XA1562	СН3-	n-C ₃ H ₇ O-{_}-{	н	Н	СН3-	Н
XA1563	СН3-		Н	н	CH3-	Н
XA1564	СН3-	NO ₂	H	Н	CH3-	Н

No.	R1	R2	R3	R4	R5	R6
XA1565	СН3-	O ₂ N	Н	Н	СН3-	Н
XA1566	СН3-	O ₂ N-{}	н	Н	СН3-	н
XA1567	снз-	CN	Н	Н	СН3	Н
XA1568	СН3~	NC	Н	Н	СН3-	Н
XA1569	снз-	NC-{}-{	Н	н	снз-	Н
XA1570	CH3-	NH ₂	Н	н	снз-	н
XA1571	снз-	H ₂ N	Н	H	СН3-	Н
XA1572	снз-	H ₂ N-⟨¯⟩→	н	н	СН3-	Н
XA1573	СН3-	NMe ₂	Н	Н	CH3-	Н
XA1574	снз-	Me ₂ N ———	Н	Н	CH3-	Н
XA1575	снз-	Me ₂ N-{	Н	Н	CH3-	Н
XA1576	СН3-	CN-	Н	н	СН3-	Н
XA1577	снз-		Н	н	СН3-	Н
XA1578	СН3-	(n-{_}-1	Н	Н	СН3-	н
XA1579	СН3-		н	н	СН3-	Н
XA1580	СН3-	Cn-€}	Н	Н	СН3-	Н
XA1581	СН3-		н	Н	СН3-	н
XA1582	СН3-	0_N- <u>(</u> _)	Н	Н	СН3-	н
XA1583	СН3-	○~	Н .	Н	СН3-	Н
XA1584	СН3-	O_N-{_}-}	Н	Н	СН3-	Н
XA1585	СН3-	H3CN N-	Н	H	СН3-	Н
XA1586	СН3-	H³CN_N-⟨_}	Н	Н	CH3-	н

No.	R1	R2	R3	R4.	R5	R6
XA1587	СН3-	H₃CN(_N-{_}}-{	н	н	СН3-	н
XA1588	СН3-	OCH ₃	н	Н	снз-	н
XA1589	снз-	OCH ₃	Н	н	СН3-	н
XA1590	CH3-	OCH ₃ F——	Н	н	СН3-	н
XA1591	СН3-		Н	Н	СН3-	H
XA1592	CH3-		Н	Н	снз-	н
XA1593	СН3	СН3-	Н	Н	снз–	СН3-
XA1594	снз-	СН3СН2-	Н	н	снз	СН3-
XA1595	снз–	^ \	Н	Н	СН3-	CH3-
XA1596	снз–	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н	СН3-	CH3-
XA1597	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н	снз-	снз-
XA1598	СН3~	人、	Н	H	снз-	СН3-
XA1599	СН3-	γ	Н	Н	снз-	СН3-
XA1600	СН3-	7	Н	н	СН3-	СН3-
XA1601	СН3-	^ ^\	Н	н	снз-	CH3-
XA1602	снз-	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Н	снз-	CH3-
XA1603	СН3-	X	Н	Н	СН3-	СН3-
XA1604	СН3-	7	Н	н .	CH3-	СН3-
XA1605	СН3-	>	Н	Н	CH3-	СН3-
XA1606	СН3-		н.	н	СН3~	СН3-
XA1607	СН3-	^ √ ^ \	H	Н	СН3-	снз-
XA1608	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	CH3-	СН3-

No.	R1	R2	R3	R4	R5	R6
XA1609	снз-	n-C8H17-	н	Н	СН3-	СН3-
XA1610	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	СН3-	СН3-
XA1611	СН3-		Н	Н	СН3	СН3-
XA1612	CH3-		н	н	СН3-	снз-
XA1613	СН3-	Q	Н	Н	СН3-	СН3-
XA1614	CH3-	> →	н _.	Н	снз-	СН3-
XA1615	снз-	$\Diamond \dashv$	Н	н	снз-	СН3-
XA1616	СН3-	\bigcirc	н	н	снз-	СН3~
XA1617	СН3-	\bigcirc \dashv	н .	Н	снз-	СН3-
XA1618	снз-	$\bigcirc \dashv$	Н	н	снз-	СН3-
XA1619	снз-		Н	н	снз-	снз-
XA1620	СН3-		Н	Н	СН3-	снз-
XA1621	СН3-		н	Н	СН3-	СН3-
XA1622	СН3-		Н	н	СН3	СН3-
XA1623	СН3-	F	Н	Н .	СН3-	СН3
XA1624	СН3-	F-{\rightarrow}-{\rightarrow}	Н	Н	СН3-	СН3-
XA1625	СН3-	F-{\}-{	Н	Н	СН3-	СН3-
XA1626	СН3-		Н	Н	СН3-	СН3-
XA1627	СН3-	_/	Н	Н	СН3-	СН3
XA1628	СН3-	CI.	Н	н	СН3-	СН3-
XA1629	СН3-	CI - ⟨_}-{	Н	Н	СН3-	СН3-
XA1630	СН3-	C {-}- ∤	H	Н	СН3-	СН3-

No.	R1	R2	R3	R4	R5	R6
XA1631	СН3-	C⊢	н	Н	СН3-	CH3-
XA1632	CH3-	Br	Н	Н	СН3-	СН3-
XA1633	CH3-	Br.	н	Н	снз-	СН3-
XA1634	CH3-	Br—{_}_{{}}	н	Н	снз-	СН3-
XA1635	снз-	Br—⟨{	Н	Н	СН3-	CH3-
XA1636	СН3-	Br—⟨	Н	н	СН3	СН3-
XA1637	СН3-		н	н	СН3-	снз-
XA1638	снз-	<u></u>	Н	н	СН3-	СН3-
XA1639	СН3-	├ ─── ∤ .	Н	н	СН3-	CH3-
XA1640	СН3-	CH ₃	Н	Н	СН3-	снз-
XA1641	СН3-	H ₃ C __{	Н	Н	снз-	СН3-
XA1642	CH3-	H ₃ C-{{}	Н	Н	СН3-	СН3-
XA1643	СН3-	C ₂ H ₅ -{}	Н	н	СН3-	СН3-
XA1644	СН3-	n-C ₃ H ₇ {}-{	н	Н	CH3-	СН3-
XA1645	СН3~	n-C ₄ H ₉ {}	Н	н	СН3-	СН3-
XA1646	снз-	ОН	Н	н	СН3-	СН3-
XA1647	СН3-	HO HO	Н	н	СН3-	снз-
XA1648	снз-	но-{-}-;	Н	н	СН3-	СН3-
XA1649	СН3-	OCH₃ 	Н	Н	СН3-	СН3-
XA1650	СН3-	H ₃ CO	Н	н	CH3-	CH3-
XA1651	снз-	H₃CO-{{}	Н	Н	CH3-	СН3-
XA1652	снз-	H ₃ CO-{_>-{	Н	н	СН3-	снз-

No.	R1	R2	R3	R4	R5	R6
XA1653	снз-	H₃CO-⟨\miles	Н	н	СН3-	снз-
XA1654	снз-	OC ₂ H ₅	Н	Н	снз-	СН3-
XA1655	CH3-	C ₂ H ₅ O	Н	н	снз-	СН3-
XA1656	снз-	C ₂ H ₅ O-{}{	н	Н	СН3-	снз-
XA1657.	снз-	n-C ₃ H ₇ O-	Н	н	снз-	СН3-
XA1658	СН3	n-C ₄ H ₉ O-	н	Н	СН3-	СН3-
XA1659	снз-	NO ₂	Н	Н	СН3-	CH3-
XA1660	снз-	O ₂ N	Н	н	CH3-	СН3-
XA1661	снз-	O ₂ N-{}	Н	Н	СН3-	СН3-
XA1662	СН3-	CN	Н	н	СН3-	снз-
XA1663	снз-	NC	Н	Н	СН3-	СН3-
XA1664	СН3-	NC-{}	Н	Н	CH3-	СН3-
XA1665	снз-	NH ₂ →	Н	Н	СН3-	СН3-
XA1666	СН3-	H ₂ N	Н	Н	СН3-	СН3-
XA1667	СН3		Н	н	СН3-	снз-
XA1668	СН3-	\/; .	Н	Н	CH3-	СН3-
XA1669	СН3-	Me ₂ N →	Н	Н	СН3-	СН3-
XA1670	СН3-	Me₂N-{	H	Н	СН3-	СН3-
XA1671	СН3-	CN-	Н	Н	СН3-	СН3-
XA1672	СН3-		н	Н	СН3-	СН3-
XA1673	СН3-	_v>-;	Н	Н	СН3-	СН3-
XA1674	СН3-	_\ \ _\	Н	Н	снз-	СН3-

No.	R1	R2	R3	R4	R5	R6
XA1675	СН3-		Н	н	снз-	СН3-
XA1676	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	н	сн3-	СН3-
XA1677	СН3-	ON-	Н	н	СН3-	CH3-
XA1678	СН3-		Н	Н	снз-	CH3-
XA1679	СН3	<u></u>	Н	н	сн3-	CH3-
XA1680	снз-	H ₃ CN N-	Н	н	СН3-	СН3
XA1681	снз–	H ₃ CN N-	Н	н	снз-	СН3-
XA1682	СН3-	H ₃ CN_N-{_}{	Н	н	СН3-	СН3-
XA1683	СН3-	OCH ₃	Н	Н	снз-	CH3-
XA1684	СН3-	OCH ₃ F—(S—i	Н	Н	СН3-	СН3-
XA1685	СН3-	OCH ₃	Н	н	СН3-	снз-
XA1686	снз-		Н	н	снз-	CH3-
XA1687	СН3-		Н	Н	снз-	снз-
XA1688	СН3-	СН3-	Н	СН3-	СН3-	CH3-
XA1689	снз–	снзсн2-	н	СН3-	снз-	CH3-
XA1690	снз–	∼ ∖\	н	СН3-	сн3-	СН3-
XA1691	СН3-	Y	Н	СН3-	CH3-	CH3-
XA1692	снз-	√ √\	Н	СН3-	СН3-	СН3-
XA1693	снз-	人、	н	СН3-	СН3-	снз-
XA1694	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	CH3-	снз-	СН3-
XA1695	снз-	丫	Н	СН3-	СН3-	снз-
XA1696	снз-	^ ~\\	Н	СН3-	СН3-	снз-

No.	R1	R2	R3	R4	R5	R6
XA1697	СН3-	/ ~	Н	СН3-	снз-	СН3-
XA1698	СН3-	Xx	Н	СН3-	СН3-	СН3-
XA1699	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СН3-	СН3-	СН3-
XA1700	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СН3-	снз-	СН3-
XA1701	СН3-	<u></u>	Н	СН3-	СН3-	СН3-
XA1702	снз-	~~~``	Н	СН3-	СН3-	CH3-
XA1703	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	H	СН3-	СН3-	CH3-
XA1704	снз-	n-C8H17-	н	СН3-	СН3-	снз-
XA1705	СН3-	人~~	Н	СН3-	CH3-	СН3-
XA1706	СН3-	Qu	Н	СН3-	СН3~	СН3-
XA1707	снз–		Н	СН3-	СН3-	СН3-
XA1708	CH3-		Н	СН3-	CH3-	СН3-
XA1709	СН3-	$\triangleright \dashv$	H	СН3-	СН3-	СН3-
XA1710	СН3	\Diamond	Ή	СН3	СН3-	СН3-
XA1711	СН3-	\bigcirc	Н	снз–	CH3-	СН3
XA1712	СН3-		Н	СН3-	СН3-	СН3-
XA1713	СН3-	$\bigcirc \dashv$	Н	СН3-	СН3-	CH3-
XA1714	СН3-		Н	СН3-	СН3	СН3-
XA1715	СН3-		Н	СН3-	СН3-	СН3-
XA1716	СН3-		Н	СН3-	снз-	СН3-
XA1717	СН3-	F	н	СН3-	СН3-	СН3-
XA1718	СН3-	<u></u>	н	СН3-	СН3-	CH3-

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No.	R1	R2	R3	R4	R5	R6
XA1719	СН3-	F-{_}-{	Н	СН3-	СН3-	СН3-
XA1720	снз-	F-(){	Н	СН3-	СН3-	снз-
XA1721	СН3-	F-_\\	Н	СН3-	СН3-	CH3-
XA1722	снз-	CI →	Н	снз-	снз-	CH3~
XA1723	снз-	CI	Н	СН3-	СН3-	CH3-
XA1724	СН3~	c⊢ ⟨ }–∤	н	снз-	СН3-	снз-
XA1725	СН3-	C⊢ ∕	н	СН3	снз-	снз-
XA1726	снз-	C⊢∕_>⊪{	н	снз-	снз-	снз-
XA1727	СН3-	Br —{	Н	СН3-	снз-	снз-
XA1728	снз-	Br.	Н	СН3-	СН3-	снз-
XA1729	СН3-	Br—⟨{	Н	СН3	СН3-	СН3-
XA1730	СН3-	Br——	н	снз-	снз-	СН3-
XA1731	СН3-	Br—€∑m{	Н	СН3-	СН3-	СН3-
XA1732	снз-	│	н	СН3-	снз-	СН3
XA1733	снз-		Н	СН3-	СН3-	СН3-
XA1734	снз-	├	Н	СН3	CH3-	СН3-
XA1735	снз-	CH ₃	Н	СН3-	СН3-	СН3-
XA1736	снз~	H ₃ C	Н	CH3	СН3	СН3-
XA1737	снз-	H₃C- ⟨_ }–{	Н	СН3-	СН3-	СН3-
XA1738	снз-	C ₂ H ₅ —{	Н	CH3-	СН3-	СН3-
XA1739	СН3-	n-C ₃ H ₇ -{}-{	Н	СН3-	CH3-	СН3-
XA1740	снз-	ņ-C ₄ H ₉ -∕_}-{	Н	СН3-	СН3-	СН3-

No.	R1	R2	R3	R4	R5	R6
XA1741	снз-	OH	Н	СН3-	снз-	снз-
XA1742	снз-	HO	Н	СН3-	СН3-	СН3-
XA1743	CH3~	HO-{\bigcirc}{	Н	СН3-	снз-	СН3-
XA1744	СН3-	OCH₃ <}_{	н	СН3-	СН3-	СН3-
XA1745	Снз-	H₃CO 	Н	СН3-	CH3-	СН3-
XA1746	СН3-	H₃CO- ⟨_ }-{	Н	CH3	СН3	снз-
XA1747	снз-	H₃CO- ()-{	Н	СН3-	СН3-	СН3-
XA1748	СН3-	H ₃ CO-{\bigs\middle}mif	Н	СН3-	снз-	СН3-
XA1749	СН3-	OC ₂ H ₅	Н	CH3-	СН3-	СН3
XA1750	снз-	C ₂ H ₅ O	Н,	CH3-	СН3-	СН3-
XA1751	снз-	C ₂ H ₅ O-{}-{	Н	CH3-	СН3	СН3-
XA1752	СН3-	n-C ₃ H ₇ O-	Н	СН3-	СН3-	CH3~
XA1753	снз-	n-C ₄ H ₉ O-	н	CH3-	СН3-	СН3-
XA1754	СН3-	NO ₂	н	CH3-	СН3-	СН3-
XA1755	СН3-	O ₂ N —}	Н	СН3-	СН3-	СН3-
XA1756	снз-	O ₂ N-{_}{	Н	СН3-	СН3-	СН3-
XA1757	СН3-	CN	н	СН3-	СН3-	СН3-
XA1758	СН3-	NC	Н	СН3-	СН3-	СН3-
XA1759	снз-	NC-{}	Н	СН3-	СН3-	СН3-
XA1760	снз~	NH ₂	Н	СН3-	СН3-	СН3-
XA1761	СН3-	H ₂ N —}	Н	CH3-	CH3-	СН3-
XA1762	снз-	H ₂ N-⟨¯⟩{	Н	CH3-	CH3-	СН3-

No.	R1	R2	R3	R4	R5	R6
XA1763	СН3-	NMe ₂	Н	сн3-	снз-	СН3-
XA1764	СН3-	Me ₂ N	Н	СН3~	снз-	СН3-
XA1765	СН3-	Me ₂ N-()-{	н	СН3-	снз-	СН3-
XA1766	СН3-		н	СН3-	снз-	СН3-
XA1767	СН3-	CN-C	Н	СН3-	снз-	СН3-
XA1768	СН3-	Cn-<>-1	Н	СН3-	снз-	СН3-
XA1769	снз-		H	СН3-	снз-	СН3-
XA1770	СН3-		Н	СН3-	снз-	CH3-
XA1771	снз-		н	снз-	СН3-	снз-
XA1772	СН3-		н	СН3	СН3-	СН3
XA1773	снз-		н	СН3-	снз-	СН3-
XA1774	СН3-	o_n-<>}	Н	СН3-	снз-	СН3-
XA1775	снз-	H₃CN N—	Н	СН3-	сн3-	CH3-
XA1776	СН3-	H₃CN_N-⟨_}	н.	СН3	СН3-	CH3-
XA1777	СН3-	H₃CN_N-{}	н	CH3-	снз-	СН3-
XA1778	снз-	OCH ₃	н	СН3-	снз-	CH3-
XA1779	снз-	OCH ₃ F—()—(Н	СН3-	СН3-	CH3-
XA1780	снз-	OCH ₃ F—(н	СН3-	снз-	CH3-
XA1781	снз-		Н	СН3-	СН3-	СН3-
XA1782	CH3-		Н	СН3-	CH3-	СН3-
XA1783	СН3СН2-	СН3-	Н	н	н	Н
XA1784	СН3СН2-	снзсн2-	н	Н	Н	Н

No.	R1 .	R2	R3	R4	R5	R6
XA1785	снзсн2-	^ \		н	н	Н
XA1786	снзсн2-	Y	Н	н	Н	Н
XA1787	снзсн2-	\\\	Н	н	н	Н
XA1788	СНЗСН2-	人工	Н	н	Н	Н
XA1789	СН3СН2-	↑	Н	Н	н	Н
XA1790	снзсн2-	7	н	н	н	Н
XA1791	снзсн2-	^ ^\	Н	н	Н	Н
XA1792	СН3СН2-	/	Н	н	Н	Н
XA1793	СН3СН2-	Xx	Н	н	н	Н
XA1794	СН3СН2-	7	н	Н	Н	Н
XA1795	СНЗСН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	н	н	н
XA1796	СН3СН2-		н	н	н	Н
XA1797	снзсн2-	~~~;	Н	н	н	Н
XA1798	снзсн2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н	н	Н
XA1799	СН3СН2-	n-C8H17-	Н	н	н	Н
XA1800	СН3СН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	Н	Н
XA1801	снзсн2-		н	н	Н	н
XA1802	СН3СН2-		Н	н .	н	Н
XA1803	СН3СН2-		н	н	н	Н
XA1804	СН3СН2-	$\triangleright \dashv$	Н	Н	н	Н
XA1805	снзсн2-	\Diamond -I	н	н	н	iH .
XA1806	Снзсн2-		Н	Н	н	Н

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No.	R1	R2	R3	R4	R5	R6
XA1807	СН3СН2-		Н	Н	Н	н
XA1808	СН3СН2-		Н	Н	Н	Н
XA1809	СН3СН2-		Н	н	Н	Н
XA1810	СН3СН2-		н	н	Н	н
XA1811	СН3СН2-	<u></u>	Н	н	Н	H
XA1812	СН3СН2-		Н	н	Н	Н
XA1813	СН3СН2-	<u></u>	Н	Н	Н	н
XA1814	СН3СН2-	F-{}-{	Н	н	н	н
XA1815	СН3СН2-		H	Н	Н	Н
XA1816	СН3СН2-	F—():::-{	Н	Н	Н	Н
XA1817	СН3СН2-	CI	н	н	H	н
XA1818	СН3СН2-	CI →	Н	Ĥ	Н	Н
XA1819	СН3СН2-	c⊢{_}_;	Н	н	Н	н .
XA1820	СН3СН2-	c⊢ (_> -{	Н	Н	Н	Н
XA1821	СН3СН2-	C⊢ (_)…{	Н	н	Н	н
XA1822	СН3СН2-	Br ∰–∤	Н	Н	Н	н
XA1823	СН3СН2-	Br	Н	Н	Н	н
XA1824	СН3СН2-	Br-{_}-{	Н	Н	н	н
XA1825	СН3СН2-	Br—{}	н	Н	н	н
XA1826	СН3СН2-	Br—⟨v{	Н	Н	Н	н
XA1827	СН3СН2-	—;	Н	Н	н	н
XA1828	СН3СН2-		Н	Н	н	Н

No.	R1	R2	R3	R4	R5	R6
XA1829	СН3СН2-	 {_}	Н	н	Н	
	0.1001.12		''		П	Н
XA1830	СН3СН2-	CH ₃	н	Н	н	Н
XA1831	СН3СН2-	H ₃ C	Н	Н	н	н
XA1832	СН3СН2-	H ₃ C-{{}	н	Н	Н	Н
XA1833	СН3СН2-	C ₂ H ₅ —{}	Н	Н	Н	Н
XA1834	снзсн2-	n-C ₃ H ₇ {}{	Н	н	Н	н
XA1835	Снзсн2-	n-C ₄ H ₉ —{}	Н	Н	н	Н
XA1836	СН3СН2-	OH →	Н	Н	н	Н
XA1837	СН3СН2-	HO ————————————————————————————————————	Н	Н	Н	Н
XA1838	СН3СН2-	HO- ⟨ }	Н	Н	н	н .
XA1839	СН3СН2-	OCH ₃	Н	Н	Н	Н
XA1840	СН3СН2-	H₃CO —	Н	Н	н	Н
XA1841	СН3СН2-	H ₃ CO-{{}	н	Н	Н	Н
XA1842	СН3СН2-	H ₃ CO-{_}	Н	Н	н ,	Н
XA1843	СН3СН2-	H ₃ CO-{_}\\	Н	Н	Н	Н
XA1844	СН3СН2-	OC ₂ H ₅	Н	Н	Н	Н
XA1845	СН3СН2-	C ₂ H ₅ O	н	Н	н	Н
XA1846	CH3CH2-	C_2H_5O-	н	Н	Н	Н
XA1847	СН3СН2-	n-C ₃ H ₇ O-{}-{	Н	н	н	Н
XA1848	СН3СН2-		н,	н	Н	н
XA1849	СН3СН2-	NO ₂	Н	Н	н	Н
XA1850	СН3СН2-	O₂N ⟨_>	Н	н	н	Н

No.	R1	R2	R3	R4	R5	R6
XA1851		O ₂ N-{}	Н	Н	Н	н
XA1852	СН3СН2-	CN CN	Н	н	н	н
XA1853	СН3СН2-	NC	Н	н	Н	н
XA1854	СН3СН2-	NC-	Н	н	Н	н
XA1855	СН3СН2-	NH ₂	Н	н	Н	н
XA1856	СН3СН2-	H ₂ N —	н	н	Н	н
XA1857	СН3СН2-	H_2N-	Н	Н	н	н
XA1858	снзсн2-	NMe ₂	Н	н	Н	н
XA1859	снзсн2-	Me ₂ N	н	н	Н	н
XA1860	снзсн2-	Me ₂ N-√_}	Н	Н	н	Н
XA1861	СН3СН2-		н	н	н .	н
XA1862	СН3СН2-		н	Н	н	Н
XA1863	СН3СН2-	_N\	Н	Н	н	н
XA1864	СН3СН2-		н	Н	Н	н
XA1865	СН3СН2-	○n-<>>	н	Н	Н	н
XA1866	СН3СН2-		н	н	н	н
XA1867	СН3СН2-	○ N- ◇	н	н	н	Н
XA1868	СН3СН2-	<u></u>	Н	Н	Н	н
XA1869	СН3СН2-	o_n-<>-;	Н	н	н	н
XA1870	СН3СН2-	H ₃ CN N	Н	н .	н	Н
XA1871	снзсн2-	H ₃ CN N-	Н	Н	Н	Н
XA1872	СНЗСН2-	H3CN N-()-	Н	Н	Н	н

No.	R1	R2	R3	R4	R5	R6
XA1873	CHIOCHO	OCH ₃ F—⟨◯⟩→	Н	Н	Н	Н
XA1874	СН3СН2-	OCH ₃ F—{	Н	н	Н	Н
XA1875	снзсн2-	OCH ₃ F—Con-(Н	н	н	Н
XA1876	снзсн2-		Н	н	н	Н
XA1877	СН3СН2-		Н	н	н	Н
XA1878	снзсн2-	СН3-	Н	СН3-	н	H
XA1879	СН3СН2-	СН3СН2-	Н	СН3	н	Н
XA1880	СН3СН2-	/ \\	Н	СН3-	Н	Н
XA1881	СнзСн2-	Y	н	СН3-	Н	Н
XA1882	СН3СН2-	✓ ✓ ✓ ,	н	СН3-	н	Н
XA1883	СН3СН2-	人、	Н	СН3-	Н	н
XA1884	снзсн2-	~~`	н	СН3-	н	Н
XA1885	СН3СН2-	7	н	СН3-	Н	н
XA1886	СН3СН2-	^	Н	СН3-	Н	Н
XA1887	снзсн2-	\ \\	Н	снз-	н	Н
XA1888	СН3СН2-	\\ \	н	снз-	Н	н
XA1889	СН3СН2-	7	н	СН3-	Н	н
XA1890	СН3СН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СН3-	н	Н
XA1891	снзсн2-	L	н	СН3	Н	Н
XA1892	СН3СН2-	^^^\	н	СН3-	Н	Н
XA1893	СН3СН2-	1,,,,	Н	снз-	н	Н
XA1894	СН3СН2-	n-C8H17-	Н	СН3-	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1895	СН3СН2-		Н	СН3-	Н	н
XA1896	СН3СН2-	Q	Н	СН3-	н	Н
XA1897	СНЗСН2-		Н	снз-	Н	н
XA1898	СН3СН2-	Q	Н	снз-	Н	Н
XA1899	СН3СН2-	$\triangleright \rightarrow$	н	СН3-	H	н
XA1900	СН3СН2-	\Diamond	н	снз-	Н	Н
XA1901	СНЗСН2-	\bigcirc	Н	снз-	н	н
XA1902	СН3СН2-		Н	снз-	Н	н
XA1903	СН3СН2-	\bigcirc -	н	СН3-	Н	н
XA1904	СНЗСН2-		Н	СН3	н	н
XA1905	СНЗСН2-		Н	СН3-	н	н
XA1906	СНЗСН2-	⊘ {	Н	СН3-	Н	н
XA1907	СНЗСН2-	F →	Н	CH3-	н	н
XA1908	СН3СН2-	F	Н	СН3-	н	Н
XA1909	СНЗСН2-	F-(-)(Н	СН3-	н	Н
XA1910	СНЗСН2-	F-(-)	н	СН3-	н	н
XA1911	СНЗСН2-	F—{}in{	н	СН3-	н	Н
XA1912	СНЗСН2-	CI	Н	СН3-	Н	н
XA1913	СН3СН2-	CĪ—;	н	СН3-	н	Н
XA1914	СНЗСН2-	c⊢ ()→	н.	СН3-	н	Н
XA1915	СНЗСН2-	CH	Н	снз-	Н	н
XA1916	СН3СН2-	CH	Н	СН3-	н	Н

No.	R1	R2	R3	R4	R5	R6
XA1917	СН3СН2-	Br △	Н	СН3	н	н
XA1918	СН3СН2-	Br.	Н	СН3-	н	Н
XA1919	снзсн2-	Br—{_}	Н	СН3-	H	Н
XA1920	Снзсн2-	Br- ⟨> -{	н .	СН3	н	н
XA1921	Снзсн2-	Br—∕`\···{	Н	СН3-	н	Н
XA1922	СН3СН2-		Н	СН3-	н	Н
XA1923	СН3СН2~		Н	СН3-	н	Н
XA1924	СН3СН2-		н	СН3-	н	Н
XA1925	СН3СН2-	CH₃ ◯>─-{	H	СН3-	н	Н
XA1926	Снзсн2-	H₃C ————————————————————————————————————	Н	СН3-	н	Н
XA1927	СН3СН2-	H ₃ C-{_}	Н	СН3-	Н	Н
XA1928	СН3СН2-	C ₂ H ₅ —{	Н	СН3-	Н	н
XA1929	Снзсн2-	n-C ₃ H ₇ {}{	Н	СН3-	Н	Н
XA1930	СН3СН2-	n-C ₄ H ₉ -{}-{}	Н	СН3	н	Н
XA1931	снзсн2-	OH →	н	СН3-	н	н
XA1932	СН3СН2-	HO · \	Н	СН3	Н	Н
XA1933	Снзсн2-	HO-{\bigcirc}	Н	СН3-	н	Н
XA1934	Снзсн2-	OCH₃ <->	н	снз-	Н	Н
-XA1935	СН3СН2-	H₃CO —}	Н	СН3-	Н	Н
XA1936	СН3СН2-	H ₃ CO-{_}-{	н	СН3-	Н	Н
XA1937	СНЗСН2-	H ₃ CO-{_>-{	н	СН3-	Н	Н
XA1938	СНЗСН2-	H₃CO-⟨⟩⊪∮	Н	СН3-	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1939	СН3СН2-	OC ₂ H ₅	н	CH3-	н	н
XA1940	снзсн2-	C ₂ H ₅ O{	Н	CH3-	Н	Н
XA1941	снзсн2-	C ₂ H ₅ O-{}{	Н	СН3-	Н	Н
XA1942	СН3СН2-	n-C ₃ H ₇ O-	Н	СН3-	Н	Н
XA1943	снзсн2-	n-C ₄ H ₉ O-{{}}	Н	СН3-	Н	н
XA1944	снзсн2-	NO ₂	Н	СН3-	Н	Н
XA1945	СН3СН2-	O ₂ N ⟨}-{	Н	СН3-	н	н
XA1946	СН3СН2-	O ₂ N-{}	Н	СН3-	н	Н
XA1947	снзсн2-	CN	н .	СН3-	н	н .
XA1948	СНЗСН2-	NC _\-{	н	СН3-	Н	Н
XA1949	СН3СН2-	NC-{}-{	н	СН3-	Н	Н
XA1950	СН3СН2-	NH ₂	Н	снз-	Н	Н
XA1951	СН3СН2-	H ₂ N —>→	н	СН3-	н	н
XA1952	СН3СН2-	H ₂ N-⟨¯⟩∤	Н	СН3-	Н	Н
XA1953	СН3СН2-	NMe₂ →	Н	снз-	Н	Н
XA1954	СНЗСН2-	Me ₂ N	Н	снз-	н	н
XA1955	СНЗСН2-	Me ₂ N-⟨\bigcirc){	Н	СН3-	н	Н
XA1956	СН3СН2-	CN-\(\)	Н	СН3-	Н	Н
XA1957	СН3СН2-		Н	СН3-	н	Н
XA1958	СН3СН2-	_N-{_}-1	Н	СН3-	Н	Н
XA1959	СН3СН2-	Cn-<	н	СН3-	Н	н
XA1960	СНЗСН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	СН3-	н	Н

No.	R1	R2	R3	R4	R5	R6
XA1961	CH3CH2-	_N-\\-	Н	СН3-	н	н
XA1962	СН3СН2-		н	СН3-	Н	Н
XA1963	СНЗСН2-		Н	СН3-	Н	Н
XA1964	СН3СН2-		Н	СН3-	Н	Н
XA1965	CH3CH2-	H₃CN N—	Н	СН3-	H	H
XA1966	СН3СН2-	H3CN N-⟨_}	н	СН3-	Н	Н
XA1967	СН3СН2-	H3CN_N-{}	Н	СН3-	н	Н
XA1968	СН3СН2-	OCH ₃	н	СН3-	н	H
XA1969	СН3СН2-	OCH ₃ F—∰	н	СН3-	н	Н
XA1970	СН3СН2-	OCH ₃ F——	Н	снз-	Н	Н
XA1971	СН3СН2-		Н	СН3-	Н	Н
XA1972	СН3СН2-		н	снз-	Н	Н

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XA1977	CIH CIH N O CH ₃
XA1978	CI N CH ₃
XA1979	CI N N CH ₃
XA1980	HCI HCI N N N N CH ₃

XA1981	HCI HCI HCI CH ₃
XA1982	HCI HCI HCI N N N N N O CH ₃
XA1983	CIH CIH CH ₃
XA1984	CIH CIH CIH N N N O N N N O CH ₃ C CH ₃

VA1005	
XA1985	CIH CIH NO CH ₃
XA1986	CIH CIH Z CH3
XA1987	CIH CIH N CH3
XA1988	HCI HCI N H ₃ C N N N N O CH ₃

XA1989	HCI HCI N N N N N O CH ₃
XA1990	HCI HCI N HCI HCI N CH ₃ C N CH ₃ C
XA1991	CH ₃ HCI N CH ₃ O CH ₃ O CH ₃
XA1992	CIH CIH N N O CH ₃

W4.4000	
XA1993	CIH CIH CIH CIH CH ₃ CH ₃
XA1994	CIH CIH CH ₃ CH ₃
XA1995	CIH CIH CH ₃ C CH ₃ C CH ₃
XA1996	CH ₃ CiH CiH N N CH ₃

XA1997	CH ₃ CIH CIH N N N H ₃ C CH ₃
XA1998	CIH CIH N N O CH ₃
XA1999	HCI CIH CIH N N N CH ₃ C O CH ₃
XA2000	CIH CIH CIH N N O CH ₃

XA2001	CIH CIH NN O CH ₃
XA2002	CIH CIH N N O CH ₃ CH ₃
XA2003	N N CH ₃
XA2004	HCI N N O CH ₃

XA2005	HCI HCI CI CH ₃
XA2006	HCI HCI HCI N N N N N N N N N N N N N N N N N N N
XA2007	HCI HCI HCI N N N N N N N N N N N N N N N N N N N

XA2008	
	H ₃ C S N N N O CH ₃
XA2009	HCI HCI CH ₃
XA2010	HCI HCI CH ₃
XA2011	N N N N CH ₃

XA2012	
	H ₃ C-S=O OH OH CH ₃
XA2013	
·	HCI HCI HCI HCI N CH ₃
XA2014	HCI HCI N N N N N N N N N N N N N N N N N N N
XA2015	HCI HCI N N N N O CH ₃

XA2016	HCI HCI HCI CH ₃
XA2017	HCI HCI HCI N N CH ₃ C
XA2018	
XA2019	H ₃ C N N N N N N N CH ₃

VA2020	
XA2020	HO N N N N N N N N N N N N N N N N N N N
XA2021	H ₃ C O N N N O CH ₃
XA2022	N N CH ₃
XA2023	O CIH CIH N N O CH ₃
XA2024	HO—NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

XA2025	H ₃ C N N N CH ₃
XA2026	CH ₃ N N CH ₃
XA2027	H ₃ C S O C C C C C C C C C C C C C C C C C
XA2028	N N N CH ₃

XA2029	
	F F F N N N N CH ₃
XA2030	F F N N O CH ₃
XA2031	H ₃ C N N N CH ₃
XA2032	N N N O CH ₃

5/10000	
XA2033	H ₃ C
XA2034	CH ₃ CH ₃ CH ₃ CH ₃ CH ₃
XA2035	CH ₃ O CH ₃

XA2036	CH ₃
XA2037	CI CI CI CH ₃
XA2038	CI CI CH ₃
XA2039	O N N N O CH ₃

XA2040	,N,
	N N N O CH ₃
XA2041	N N N N N CH ₃
XA2042	H ₃ C O CH ₃
XA2043	H ₃ C O CH ₃

XA2044	
70 2577	CH ₃ S O CH ₃
XA2045	H ₃ C N N N O CH ₃
XA2046	H ₃ C CH ₃ N N N O CH ₃
XA2047	H ₃ C N N N O CH ₃

XA2048	
	H ₂ N O CH ₃
A2049	H ₃ C N N N O CH ₃
XA2050	Br N N CH ₃
XA2051	Br N O CH ₃

XA2052	Br N O CH ₃
XA2053	H ₃ C O N CH ₃ CH ₃ O
XA2054	F N N CH ₃
XA2055	N N CH ₃

Table-2					
		R_3 R_4 R_5 R_1 R_1			
No	R1	R2	R3	R4	R5
XB1	СН3-	СН3-	Н	н	н .
XB2	снз-	CH3CH2-	Н	н	Н
ХВ3	СН3-	∕ ∕\	Н	Н	Н
XB4	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	н
XB5	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	Н
XB6	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	Н
XB7	снз-	7	Н	Н	Н
XB8	снз-	/ \/\\	Н	Н	Н
XB9	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Н	Н
XB10	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	н
XB11	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н .	н
XB12	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н	Н
XB13	СН3-		н	Н	н
XB14	СН3-		н	Н	Н
XB15	СН3-		Н	Н	Н
XB16	СН3-	○	Н	Н	Н
XB17	СН3-	F 	Н	Н	Н

No	R1	R2	R3	R4	R5
XB18	снз-	F	Н	Н	Н
XB19	СН3	F-(-)	Н	Н	Н
XB20	СН3-	CI	Н	Н	Н
XB21	СН3-	CI →	Н	Н	н .
XB22	СН3-	C⊢	Н	H	Н
XB23	СН3-	Br	Н	Н	Н
XB24	снз-	Br. →	Н	Н	н
XB25	снз-	Br─ੑੑ	н	Н	н
XB26	снз-	CH ₃	Н	Н	н
XB27	снз-	H ₃ C	Н	Н	Н
XB28	СН3-	H ₃ C-{_}	Н	Н	н
XB29	СН3-	C ₂ H ₅ —{	Н	Н	Н
XB30	СН3-	OH →	Н	н	н
XB31	СН3-	HO	н	Н .	н
XB32	СН3-	HO-{-}-}	Н	Н	Н
XB33	СН3-	OCH ₃	Н	Н	н
XB34	снз-	H ₃ CO	H ·	Н	н
XB35	СН3-	H ₃ CO-{_}	Н	н	Н
XB36	СН3-	C ₂ H ₅ O-{}-{	н	Н	Н
XB37	СН3-	NO ₂	Н	н	Н
XB38	CH3-	O ₂ N	Н	Н	н

l No	R1	R2	1==		
No	- 7 !	RZ	R3	R4	R5
XB39	СН3-	O ₂ N-{}	Н	Н	Н
XB40	снз-	CN	Н	Н	Н
XB41	CH3-	NC	Н	Н	н
XB42	СН3-	NC-()	Н	Н	н
XB43	снз-		н	Н	н
XB44	СН3-		Н	Н	н
XB45	СН3-	CCT	Н	Н	н
XB46	снз-	O,N	Н	Н	н
XB47	СН3-	FON	н	н	Н
XB48	СН3-		Н	Н	Н
XB49	СН3-	ON IN	Н	н	н .
XB50	СН3-		ОН	Н	н
XB51	снз-	F	он	Н	Н
XB52	снз-	<u></u>	он	н	н
XB53	СН3-	F-(он	н	Н
XB54	CH3-	CI →	он	н	н
XB55	СН3-	CI	он	н	н
XB56	СН3-	C⊢	он	Н	н
XB57	снз-	Br —∤	он	Н	Н
XB58	СН3-	Br.	он	Н	. н
XB59	СН3-	Br-{_}{	ОН	н	Н

No	R1	R2	R3	R4	R5
140		CH ₃	110	104	1.0
XB60	СН3-	◯ →;	он	Н	Н
XB61	СН3-	H₃C ——	он	Н	н
XB62	снз-	H ₃ C-{}	он	н	Н
XB63	CH3-	C ₂ H ₅ -{_}	он	Н	н .
XB64	СН3-	ОН	ОН	н	Н
XB65	СН3-	HO	он	Н	Н
XB66	СН3-	HO-{\bigs_}-{	он	Н	Н
XB67	СН3-	OCH₃	он	Н	Н
XB68	снз-	H ₃ CO	он	Н	Н
XB69	СН3-	H ₃ CO-{	он	Н	Н
XB70	СН3-	C ₂ H ₅ O-{	он	Н	Н
XB71	СН3-	NO ₂	он	H	Н
XB72	CH3-	O ₂ N	ОН	Н	Н
XB73	CH3-	O ₂ N-{	он	H	Н
XB74	СН3-	CN	он	Н	Н
XB75	CH3-	NC	ОН	Н	Н
XB76	CH3-	NC-{}-{	он .	Н	Н
XB77	снз-	CO	он	Н	Н
XB78	СН3-		он	Н	н
XB79	СН3-	OCT	он	Н	Н
XB80	СН3-	€	CN	Н	Н

No	R1	R2	R3	R4	R5
XB81	CH3-	\$	CN	н	н
XB82	СН3-		CN	Н	н
XB83	СН3-	F-{_}{	CN	Н	Н
XB84	СН3-	CI	CN	Н	H
XB85	CH3-	CI	CN	Н	Н
XB86	CH3-	c⊢	CN	Н	Н
XB87	СН3-	Br	CN	Н	н
XB88	СН3-	Br	CN	Н	н
XB89	СН3-	Br─{}	CN	Н	н
XB90	СН3-	CH ₃	CN	Н	н
XB91	СН3-	H ₃ C	CN	н	Н
XB92	СН3-	H ₃ C-	GN	н	н
XB93	СН3-	C ₂ H ₅ —{	CN	Н	Н
XB94	снз-	ОН	CN	H	Н
XB95	снз-	HO	CN	H .	Н
XB96	СН3-	HO-{}	CN	н	Н
XB97	CH3-	OCH ₃	CN	н	Н
XB98	СН3-	H₃CO ——∤	CN	Н	Н
XB99	CH3-	H₃CO-⟨}-{	CN	Н	н
XB100	CH3-	C ₂ H ₅ O-{	CN	Н	н
XB101	CH3-	NO ₂	CN	н	н

No	R1	R2	R3	R4	R5
XB102	снз-	O ₂ N	CN	Н	Н
XB103	CH3-	O ₂ N-{_}{	CN	Н	н
XB104	СН3-	CN —{	CN	Н	Н
XB105	СН3-	NC	CN	Н	н .
XB106	CH3-	NC-{}	CN	Н	Н
XB107	СН3-	ChO	CN	Н	Н
XB108	СН3-		CN	н.	н
XB109	CH3-		CN	Н	Н
XB110	СН3-	н	н	СН3-	Н
XB111	CH3-	н	Н	CH3CH2-	н
XB112	CH3-	H	Н	∕	н
XB113	СН3-	Н	Н	\\ \\ \	Н
XB114	СН3-	Н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н
XB115	CH3-	Н	Н	<u></u>	н
XB116	CH3-	Н .	Н	\	Н
XB117	снз-	Н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н
XB118	СН3-	Н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н
XB119	CH3-	Н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н
XB120	СН3-	Н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н
XB121	СН3-	Н	Н	~~~~	H H
XB122	СН3-	н	Н		н

No	R1	R2	R3	R4	R5
XB123	CH3-	Н	Н	PO H	Н
XB124	СН3-	н	Н	F OCH2	н
XB125	СН3-	Н	н		Н
XB126	снз-	Н	н		H .
XB127	снз-	Н	Н		Н
XB128	снз-	Н	Н	F	н
XB129	снз-	Н	н	F	H
XB130	снз-	Н	Н	F-{\}-{	н
XB131	снз-	Н	Н	CI →	н
XB132	снз-	н	н	CI	Н
XB133	снз-	Н	Н	C⊢(Н
XB134	снз-	Н	Н	CI CI	Н
. XB135	снз-	н	Н	Br	Н
XB136	снз-	н	Н	Br	н
XB137	снз-	н	Н	Br-{}-{	Н
XB138	снз-	н	н	CH₃	Н
XB139	снз-	н	н	H ₃ C	н
XB140	снз-	Н	н	H ₃ C-{_}	Н
XB141	снз-	н	Н	C ₂ H ₅ {}	Н
XB142	снз-	н	Н	OH OH	Н
XB143	снз-	н	Н	HO ———	Н

No_	R1	R2	R3	R4	R5
XB144	СН3-	Н	Н	HO-{\bar{\bar{\bar{\bar{\bar{\bar{\bar	н
XB145	СН3-	Н	н	OCH ₃	Н
XB146	СН3-	н	Н	H ₃ CO	Н
XB147	СН3-	н	н	H ₃ CO-{_}-{	H .
XB148	СН3-	Н	н	C ₂ H ₅ O-{	Н
XB149	СН3-	Н	н	NO ₂	н
XB150	CH3-	Н	н	O ₂ N	н
XB151	снз-	Н	Н	O ₂ N-{}-{	Н
XB152	снз-	Н	Н	CN	Н
XB153	СН3-	Н	Н	NC	н
XB154	снз-	Н	Н	NC-{}	Н
XB155	снз-	Н	Н		Н
XB156	снз-	Н	Н	CCY	Н
XB157	СН3-	Н	Н	F	н
XB158	CH3-	Н	Н	FUN	н
XB159	CH3-	Н	н	F N'N	н
XB160	СН3-	Н	Н	₩.	н
XB161	CH3-	н	Н	CTN →	н
XB162	СН3-	Н	н	CT ₂ -0	н
XB163	снз-	н	н	O'l',	Н
XB164	CH3-	Н	Н	FON	н

No	R1	R2	R3	R4	R5
XB165	СН3-	н	Н	CH₃	н
XB166	СН3-	н	Н	F N ² CH ₃	Н
XB167	СН3-	Н	Н	H ₃ CO	Н
XB168	СН3-	Н	H	F N ² H ₃ C O	Н

No	R1	R2	R3	R4	R5
XB169	СН3-	н	Н	<u> </u>	ОН
XB170	СН3-	н	н	F	ОН
XB171	СН3-	н	н	F	он
XB172	снз-	Н	Н	F-(-)	он
XB173	снз-	н	Н	CI	он
XB174	СН3-	н	н	CI	он
XB175	СН3-	Н	н	C⊢<{}	он
XB176	СН3-	Н	Н	Br	он
XB177	СН3-	Н	Н	Br	он
XB178	СН3-	н	Н	Br──{	он
XB179	СН3-	Н	н	CH₃	он
XB180	СН3-	н	Н	H₃C —	он
XB181	СН3-	Н	н	H ₃ C-{{}}	он
XB182	СН3	н	н	C ₂ H ₅ —{	он
XB183	снз-	Н	н	OH OH	он
XB184	снз-	н	н	HO	он
XB185	СН3-	Н	н	HO-{\bar{\bar{\bar{\bar{\bar{\bar{\bar	он

	NI.	In.	100				
-	No	R1	R2		23	R4	R5
×	B186	CH3-	Н		l	OCH ₃	он
х	B187	снз-	н		. — 	H ₃ CO	ОН
×	B188	СН3-	н	Н		H ₃ CO-{	он
X	B189	СН3-	н	Н		C ₂ H ₅ O-	-{ он
X	B190	СН3-	Н	Н		NO ₂	он
XI	B191	СН3-	н	Н		O ₂ N	он
XI	B192	СН3-	Н	н		O ₂ N-{	он
XE	3193	СН3-	н	н		CN	он
XE	3194	снз-	н	Н		NC	ОН
XE	3195	СН3-	Н	Н	,	NC-{}	он
XE	3196	СН3-	н	Н			он
XE	3197	СН3-	н	н			он
XB	3198	СН3-	Н	Н			CN
ХВ	199	СН3-	Н	Н		F	CN
ХВ	200	СН3-	н	н		F	CN
ХВ	201	снз-	н	н		F-{_}{	CN
ХВ	202	СН3-	н	н		CI	CN
ХВ	203	CH3-	Н	Н		CI	CN
ХВ	204	CH3-	Н	Н		CH{}	CN
XB	205	СН3-	Н	н		Br	CN
XB	206	CH3-	Н	Н		3r,	CN

No	R1	R2	R3	R4	R5
XB207	СН3-	Н	Н	Br—⟨{}	CN
XB208	снз-	Н	Н	CH ₃	CN
XB209	снз-	н	н	H ₃ C	CN
XB210	СН3-	Н	Н	H ₃ C-{}-{	CN .
XB211	СН3-	н	Н	C ₂ H ₅ —{	CN
XB212	СН3-	Н	Н	OH	CN
XB213	CH3-	Н	н	НО	CN
XB214	CH3-	н	Н	HO-{\bar{\bar{\bar{\bar{\bar{\bar{\bar	CN
XB215	СН3-	Н	н	OCH ₃	CN
XB216	CH3-	н	Н	H₃CO —∤	CN
XB217	CH3-	Н	Н	H ₃ CO-{_}-{	CN
XB218	CH3-	Н	н		CN
XB219	СН3-	Н	Н	NO ₂	CN
XB220	СН3-	Н	Н	O ₂ N	CN
. XB221	CH3-	Н	н	O ₂ N-{	GN
XB222	снз-	н	Н	CN	CN
XB223	СН3-	Н	н .	NC	CN
XB224	CH3-	Н	н	NC-{}	CN
XB225	СН3-	Н	Н		CN
XB226	CH3-	Н	Н	CCC r	CN
XB227	CH3-	Н	Н		<u></u>

No	R1	R2	R3	R4	R5
XB228	CH3-	н .	Н	F	0
XB229	СН3-	н	н	F	0
XB230	СН3-	н	Н	F-(-);	O
XB231	снз-	Н	Н	CI →	0
XB232	CH3-	tH	н	CI	<u></u>
XB233	СН3-	н	Н	CH	,
XB234	CH3-	Н	н	Br	_\\\\\\\\\\\\\
XB235	снз-	н .	Н	Br.	O
XB236	СН3-	Н	н .	Br─∰	
XB237	СН3-	Н	Н	CH₃	0
XB238	СН3	Н	Н	H₃C <u></u>	_\
XB239	снз-	Н	н	H ₃ C-{	\
XB240	CH3-	Н	Н	C ₂ H ₅ —{}	<u></u>
XB241	CH3-	н	Н	OH	
XB242	СН3-	н	н	HO ————————————————————————————————————	O
XB243	снз-	Н	Н	HO-{	o <u></u> →
XB244	СН3-	Н	Н	OCH ₃	<u></u>
XB245	снз-	Н	H	H ₃ CO	0
XB246	снз-	Н	Н	H ₃ CO-{_}) - -
XB247	снз-	Н	Н	C ₂ H ₅ O-{	0
XB248	снз-	Н	Н	NO ₂	0=

No	R1	R2	R3	R4	R5
XB249	СН3-	Н	Н	O ₂ N	_ _
XB250	снз-	н	н	O_2N-) - -
XB251	СН3-	н	Н	CN	O —,
XB252	снз-	Н	Н	NC	· \
XB253	снз-	Н	H	NC-{}	0
XB254	СН3-	Н	Н		0
XB255	СН3-	Н	н.	CC '	°,

No.	STRUCTURE
XB256	N N N O CH ₃
XB257	* CH ₃
XB258	CIH N N O CH ₃
XB259	ON NO CH ₃

VP260	
XB260	CIH N O CH ₃
XB261	N CH ₃
XB262	H ₃ C N N N O CH ₃
XB263	CIH CIH N N N O CH ₃ CCH ₃

XB264	
	H ₃ C N N N O CH ₃
XB265	H ₃ C N N N O CH ₃
XB266	CIH CIH CIH NN NO CH3
XB267	Br CH ₃
XB268	Br CH ₃

VD000	
XB269	N CH ₃
XB270	N CH ₃
XB271	F CH ₃
XB272	F F N N O CH ₃

XB273	
	CH ₃ N N O CH ₃
XB274	O CH ₃ N N O CH ₃
XB275	CH ₃ N N CH ₃ O CH ₃
XB276	CH ₃ N N O CH ₃

VD077	
XB277	O CH ₃ N N O CH ₃ CH ₃
ХВ278	CH ₃ CH ₃ CH ₃
XB279	CH ₃ N N CH ₃ O CH ₃
XB280	H ₃ C N N N O CH ₃
XB281	Br N N O CH ₃

XB282 XB283	N N N N CH ₃
	HO N N N O CH ₃
XB284	CH ₃ H ₃ C N CH ₃ O CH ₃
XB285	ON CH ₃
XB286	N CH ₃

XB2 <u>8</u> 7	H ₃ C N N N O CH ₃
XB288	CH ₃ N N CH ₃ O
XB289	
XB290	H ₃ C N O

XB291	
	HO CH ₃
ХВ292	N N CH ₃
XB293	OCH3 NCH3
XB294	H ₃ C _O CH ₃
XB295	CH ₃ N N O CH ₃

VDOOG	·
XB296	CH ₃ CH ₃ CH ₃
XB297	H ₃ C, N, CH ₃
XB298	N N N O CH ₃
XB299	N N CH ₃

XB300	
ЖВ301	N N N N O CH ₃
	N N N N O CH ₃
XB302	CH ₃

Table-3				
		N _N		
		R ³ R ² N N O		
No.	R1	R2	R3	R4
YA0001	CH3-	H	H	CH3-
YA0002	CH3-	Н	Н	CH3CH2-
YA0003	CH3-	Н	Н	<u> </u>
YA0004	CH3-	Н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
YA0005	CH3-	Н	Н	\\\\
YA0006	CH3-	. н	н	人、
YA0007	CH3-	Н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
YA0008	СН3-	Н	Н	74
YA0009	СН3-	Н	Н	
YA0010	. CH3-	Н	Н	
YA0011	CH3-	н	Н	
YA0012	CH3-	• н	Н	\triangleright
YA0013	CH3-	Н	Н	\Diamond - \downarrow
YA0014	CH3-	н	Н	\bigcirc - $\stackrel{\downarrow}{\downarrow}$
YA0015	СН3-	Н	Н	
YA0016	СН3-	Н	Н	\bigcirc -
YA0017	CH3	Н	Н	
YA0018	СН3-	Н	Н	F (
YA0019	СН3-	Н	Н	F
YA0020	CH3-	Н	Н	F-{_}-{
YA0021	CH3-	Н	Н	CI

No. R1 R2 R3 R4 YA0022 CH3- H H CI H YA0023 CH3- H H CH H YA0024 CH3- H H Br Br Br Br	4
YA0022 CH3− H H Image: CH3-Image: CH3-Im	
YA0024 CH3− H H Br	
YA0024 CH3- H H	
Br	
YA0025 CH3- H H	
YA0026 CH3- H Br—{}	· · · · · · · · · · · · · · · · · · ·
YA0027 CH3- H H	
YA0028 CH3- H H	
YA0029 CH3- H H	
YA0030 CH3- H H CH ₃	
YA0031 CH3- H H ₃ C	
YA0032 CH3- H H ₃ C-	
YA0033 CH3- H C ₂ H ₅ -	-{
YA0034 CH3- H H-C ₃ H ₇ -	≻ -}
YA0035 CH3- H H n-C ₄ H ₉ -	├ ─-{
YA0036 CH3- H H OH	
YA0037 CH3- H HO	
YA0038 CH3- H HO-	
YA0039 CH3- H H OCH ₃	
YA0040 CH3- H H ₃ CO	
YA0041 CH3- H H ₃ CO-(-{
YA0042 CH3- H C ₂ H ₅ O-	- {

No.	R1	R2	R3	R4
YA0043	СН3-	Н	Н	n-C ₃ H ₇ O-{{}{}
YA0044	CH3-	Н	н	n-C ₄ H ₉ O-
YA0045	СН3-	Н	н	NO ₂
YA0046	СН3-	Н	Н	O ₂ N
YA0047	СН3-	Н	Н	O ₂ N-{
YA0048	СН3-	Н	Н	CN
YA0049	СН3-	Н	Н	NC ——
YA0050	CH3-	н .	Н	NC-{}-{.
YA0051	СН3-	Н	Н	CF ₃
YA0052	CH3-	н	Н	F ₃ C
YA0053	СН3-	Н	н	F ₃ C-{_}-{
YA0054	снз-	Н	Н	СООН
YA0055	CH3~	Н	н	HOOC
YA0056	СН3-	Н	н	HOOC-{\rightarrow}-\{
YA0057	CH3-	Н.	Н	CO₂Me
YA0058	CH3-	Н	Н	MeO ₂ C
YA0059	CH3-	Н .	Н	MeO ₂ C-{\bigcreak}{\}
YA0060	СН3-	Н	Н	CO ₂ Et
YA0061	СН3-	Н	Н	EtO ₂ C
YA0062	CH3-	Н	Н	EtO ₂ C-{}
YA0063	снз-	Н	Н	SMe

No.	R1_	R2	R3	R4
YA0064	CH3-	Н	Н	MeS
YA0065	CH3-	Н	Н	MeS-{
YA0066	СН3-	Н	Н	SO₂Me
YA0067	СН3-	н	Н	MeO ₂ S
YA0068	СН3-	Н	Н	MeO ₂ S-{
YA0069	CH3-	Н	Н	NH ₂
YA0070	СН3-	Н	Н	H ₂ N —→
YA0071	СН3-	H	Н	H_2N
YA0072	СН3-	H	Н.	NMe₂
YA0073	СН3-	Н	Н	Me ₂ N
YA0074	CH3-	Н	Н	Me₂N-⟨¯¯⟩{
YA0075	CH3-	Н	Н	
YA0076	CH3-	Н	Н	OO'r
YA0077	CH3-	Н	Н	
YA0078	CH3-	н	Н	Z S
YA0079	CH3-	н	Н	
YA0080	CH3-	н	н	53,

No.	R1	R2	R3	R4
YA0081	CH3-	Н	Н	F
YA0082	CH3-	н	Н	F C C
YA0083	CH3-	Н	Н	CI OL
YA0084	CH3-	Н	Н	CI CIL

N.	Di			
No.	R1	R2	R3	R4
YA0085	CH3-	Н	Н	CI OF
YA0086	CH3-	Н	Н	Br O
YA0087	СН3-	н	н	Br
YA0088	СН3-	н	Н	Br
YA0089	СН3-	н	н	CHO
YA0090	CH3-	Н	Н	H ₃ C
YA0091	CH3-	н	н	H ₃ C
YA0092	СН3-	Н	н	CH₃O O
YA0093	СН3-	. H	Н	H ₃ CO
YA0094	СН3-	Н	Н	H ₃ CO
YA0095	CH3-	Н	Н	NO.O
YA0096	СН3-	н	Н	O ₂ N
YA0097	CH3-	Н	Н	O ₂ N
YA0098	CH3-	н	Н	OH O
YA0099	CH3-	Н	Н	но
YA0100	СН3-	Н	н	HOP
YA0101	СН3-	Н	Н	NH-O

No.	R1	R2	R3	R4
YA0102	CH3-	Н	Н	H ₂ N
YA0103	СН3-	Н	Н	H ₂ N , r
YA0104	CH3-	Н	Н	CNO
YA0105	СН3-	Н	Н	NC O

No.	R1	R2	R3	T 74
			1 1	R4 O .
YA0106	CH3-	Н	Н	NC The
YA0107	CH3-	Н	н	Qi,
YA0108	CH3-	Н	Н	OD ⁱ ,
YA0109	CH3-	Н	Н	<u>ک</u> ہ
YA0110	CH3-	н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
YA0111	СН3-	н	Н	~\
YA0112	СН3-	Н	Н	\f ,
YA0113	СН3-	Н	н	
YA0114	СН3	Н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
YA0115	СН3-	Н	Н	x},
YA0116	СН3-	Н	Н	~~ ¹ ,
YA0117	СН3-	Н	Н	~~~ ^Q ,
YA0118	СН3-	н	Н	~~~\
YA0119	СН3-	Н	Н	√ P _r
YA0120	CH3-	н	Н	
YA0121	CH3-	Н	Н	J.
YA0122	CH3-	Н	Н	

No.	R1	R2	R3	R4
YA0123	CH3~	O H³CO, ≻	Н	Н
YA0124	CH3-	H³CO_≻	Н	CH3-
YA0125	CH3-	O H₃CO ≻	Н	CH3CH2-
YA0126	CH3-	O H³CO, ≻	Н	^ \

No.	R1	R2	R3	R4
YA0127	CH3-	O H ₃ CO 'y	Н	Y
YA0128	СН3-	O H ₃ CO /	н	\\\ \
YA0129	СН3-	O H₃CO />	Н	人、
YA0130	СН3-	O H ₃ CO ^L >r	Н	~
YA0131	CH3-	O H₃CO ≻	Н	丫
YA0132	CH3-	O H₃CO ≻	Н	
YA0133	CH3-	O H³CO >	Н	
YA0134	CH3-	O H₃CO ≻	Н	
YA0135	СН3-	O H ₃ CO /	Н	$\triangleright \dashv$
YA0136	CH3-	O H₃CO ≻r	Н	\Diamond
YA0137	CH3-	O H₃CO ∕	Н	\bigcirc
YA0138	CH3-	O H₃CO ≻	Н	
YA0139	CH3-	O H₃CO ≻	Н	
YA0140	CH3-	O H³COД≻	Н	
YA0141	CH3-	O H₃CO y	Н	F —
YA0142	CH3-	O H₃CO /	Н	
YA0143	CH3-	O H₃CO ≻	Н	
YA0144	CH3-	H³CO, ≻ O	Н	CI
YA0145	CH3-	O H ₃ CO /	н	CI
YA0146	СН3-	O H₃CO ≻	Н	C⊢({}
YA0147	CH3-	O H₃CO ≻r	Н	Br

No.	R1	R2	D2	D4
	 		R3	R4 Br
YA0148	CH3-	H ₃ CO ^N ₂ ,	Н	
YA0149	CH3-	H₃CO >	Н	Br-{_}{
YA0150	CH3-	O H₃CO y	Н	CH ₃
YA0151	СН3-	H ₃ CO ¹ >	н	H ₃ C
YA0152	CH3-	H₃CO y	н	H ₃ C-{_}_{{}}
YA0153	СН3-	H³CO, '\	н	C ₂ H ₅ -{_}-{
YA0154	CH3-	H³CO,	Н	n-C ₃ H ₇ {}
YA0155	CH3-	O H ₃ CO >	Н	n-C ₄ H ₉ -{_}-{
YA0156	СН3-	O H₃CO →	н	OCH ₃
YA0157	CH3-	H³CO, ≻	Н	H ₃ CO
YA0158	CH3-	O H ₃ CO /	н	H₃CO - {_}_{}
YA0159	CH3-	H³CO_}\	Н	C ₂ H ₅ O-{
YA0160	CH3-	H³CO, ^λ .	Н	n-C ₃ H ₇ O-
YA0161	CH3~	O H₃CO∵≻	Н	n-C ₄ H ₉ O-
YA0162	CH3-	O H³CO ≻	Н	· NO ₂
YA0163	CH3-	O H³CO ≻	Н	O ₂ N
YA0164	СН3-	H³CO, Y	Н	O ₂ N-{
YA0165	СН3-	O H₃CO \	Н	CN →
YA0166	СН3-	H³CO, ≻	Н	NC
YA0167	СН3-	H ₃ CO Y	Н	NC-{}-{
YA0168	СН3-	O H₃CO ≻	н	NMe ₂

No.	R1	R2	R3	R4
YA0169	СН3-	H³CO_>	Н	Me ₂ N
YA0170	CH3-	H³CO, ≻	Н	Me₂N-{
YA0171	СН3-	H³CO, ≻	Н	
YA0172	СН3-	H ₃ CO '	Н	CCC' ¹
YA0173	СН3-	H₃CO →	Н	Oly
YA0174	CH3-	O H₃CO ≻r	Н	Qi,
YA0175	CH3-	O H₃CO ≻	н	
YA0176	CH3-	O H₃CO ≻	н	O.,
YA0177	CH3-	O H₃CO`≻	Н	%
YA0178	CH3-	O C₂H₅O →	Н	н
YA0179	CH3-	O C ₂ H₅O ≻	Н	СН3-
YA0180	CH3-	O C₂H₅O →	Н	СН3СН2-
YA0181	CH3-	O C₂H₅O →	Н	∕ ∖\
YA0182	CH3~	O C₂H₅O ≻	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
YA0183	СН3-	O C ₂ H ₅ O ×	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
YA0184	CH3-	O C ₂ H ₅ O √	Н	L

No.	R1	R2 ·	R3	R4
YA0185	CH3-	O C ₂ H ₅ O	н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
YA0186	CH3-	O C₂H₅O →	Н	*
YA0187	CH3-	O C ₂ H ₅ O	н	
YA0188	СН3-	C ₂ H ₅ O >	Н	
YA0189	CH3-	O C₂H₅O →	н	

No.		R1	R2	R3	
YA01		СН3-	O C ₂ H ₅ O ,	Н	R4
YA01	91	CH3-	O C ₂ H ₅ O	Н	◇ -₁
YA019	2	CH3-	O C ₂ H ₅ O ^N >	н	
YA019	3	CH3-	O C ₂ H ₅ O /	Н	
YA019	4	снз-	O C ₂ H ₅ O - >-	Н	
YA019	5	CH3-	O C ₂ H ₅ O	н	<u></u>
YA019	6	CH3-	O C ₂ H ₅ O y	Н	F
YA019	7	CH3-	O C ₂ H ₅ O	Н	F
YA019	В	CH3-	C ₂ H ₅ O	Н	F-{}-{
YA019	9	CH3-	O C ₂ H ₅ O ×	Н	CI
YA020	,	CH3-	C ₂ H ₅ O	Н	CI
YA020		СН3-	O C₂H₅O ≻	Н	C├ - -{
YA0202	:	CH3-	O C ₂ H ₅ O → γ	Н	Br △
YA0203		CH3-	O C ₂ H ₅ O //	Н	Br. →
YA0204		CH3-	C ₂ H ₅ O y	н	Br- {_ }-{
YA0205		СН3-	O C₂H₅O →	н	CH ₃
YA0206		СН3-	C ₂ H ₅ O.	. Н	H ₃ C
YA0207	\perp	СН3-	O C ₂ H ₅ O √ ≻	Н	H ₃ C-{
YA0208		СН3-	O C₂H₅O ∕	н	C ₂ H ₅ -{}
YA0209		СН3-	O C₂H₅O ∕∕	Н	Դ-C₃H ₇ -∕{}
YA0210		СН3-	O C₂H₅O →	н	1-C ₄ H ₉ {}

No.	R1	R2	R3	R4
YA0211	CH3-	O C₂H₅O →	Н	OCH ₃
YA0212	CH3-	O C₂H₅O ✓	Н	H₃CQ —∤
YA0213	CH3-	O C₂H₅O ✓	Н	H ₃ CO-{}-{
YA0214	CH3-	O C₂H₅O ✓	Н	C ₂ H ₅ O-{}{
YA0215	СН3-	O C₂H₅O ≻′	н	n-C ₃ H ₇ O-
YA0216	СН3-	O C₂H₅O ≻	Н	n-C₄H ₉ O-∕}
YA0217	CH3-	O C₂H₅O ≻	Н	NO ₂
YA0218	CH3-	O C₂H₅O ✓	Н	O ₂ N
YA0219	СН3	O C₂H₅O ✓	Н	O ₂ N-{
YA0220	CH3-	O C₂H₅O ✓	Н	CN
YA0221	CH3-	O C₂H₅O ✓	Н	NC.
YA0222	СН3-	O C₂H₅O [™] ≻′	Н	NC-{\rightarrow}-{
YA0223	CH3-	O C₂H₅O [™] ≻	Н	NMe ₂
YA0224	CH3-	O C₂H₅O [™] ≻′	Н	Me ₂ N
YA0225	CH3-	O C₂H₅O [™] ⊁	Н	Me₂N-⟨¯¯⟩{
YA0226	СН3-	O C₂H₅O [™] ≻	н	

No.	R1	R2	R3	R4
YA0227	CH3~	O C₂H₅O →	н	
YA0228	CH3-	O C₂H₅O →	Н	
YA0229	СН3-	O C₂H₅O →	Н	
YA0230	СН3-	O C ₂ H ₅ O · ›	Н	
YA0231	СН3-	O C ₂ H ₅ O >	Н	2,

No.	R1	R2	R3	R4
YA0232	СН3-	O C ₂ H ₅ O ,	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
YA0233	CH3-	CH3-	Н	Н
YA0234	СН3-	CH3CH2-	н	Н
YA0235	СН3-	∼ ∖\	Н	н
YA0236	СН3-	7	Н	н
YA0237	снз-	\\\\\	Н	н
YA0238	СН3-	人、	Н	Н
YA0239	СН3-	~	Н	. н
YA0240	CH3-	丫	Н	Н
YA0241	СН3-	^ \\	н	Н
YA0242	СН3-	Y \	Н	н
YA0243	СН3-	X	н	Н
YA0244	CH3-	7	н	Н
YA0245	CH3-	\\\\	Н	Н
YA0246	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Н
YA0247	СН3-	^ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
YA0248	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н
YA0249	СН3-	\\\\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
YA0250	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
YA0251	СН3-		н	Н
YA0252	СН3-		Н	Н

No.	R1	R2	R3	R4
YA0253	CH3~			
170200	0113	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н
YA0254	СН3-	$\triangleright \rightarrow$	н	Н
YA0255	СН3-	\Diamond -1	Н	Н
YA0256	СН3-	\bigcirc	н	Н
YA0257	CH3-	$\bigcirc \dashv$	н	н
YA0258	CH3-	\bigcirc -I	н	Н
YA0259	СН3-		н	н
YA0260	СН3-	△ -∤	н	Н
YA0261	СН3-	_ in{	Н	Н
YA0262	СН3-	F	н	Н
YA0263	CH3-	F	н	Н
YA0264	CH3-	F-{}-{	н	н
YA0265	СН3-	F-{_}-{	н	,
YA0266	СН3-	F—	н	н
YA0267	СН3-	CI →	н	Н
YA0268	CH3-		н	Н
YA0269	СН3-		Н	Н
YA0270	СН3-		Н	Н
YA0271	CH3-		н	Н
YA0272	СН3-	Br ∑—{	н	н
YA0273 ·	CH3-	31,	Н	Н

NO. H1 R2 R3 R4 YA0274 CH3- Br → + H H YA0275 CH3- Br → + H H YA0276 CH3- Br → + H H YA0277 CH3- H H H YA0278 CH3- H H H YA0280 CH3- CH3- H H YA0281 GH3- H3C H H YA0282 CH3- H3C H H YA0283 CH3- C2H5- H H YA0284 CH3- PC3H7- H H YA0285 CH3- PC4H9- H H YA0286 CH3- POC4H9- H H YA0287 CH3- HO H H H YA0288 CH3- POCH3- H H H YA0290 CH3- H3CO H H H<	<u> </u>				
YA0275 CH3- Br-	No.	R1	R2	R3	R4
YA0276 CH3- Br H H H YA0277 CH3-	YA0274	СН3-	Br-{	н	Н
YA0277 CH3- Image: CH3- I	YA0275	CH3-	Br—{	Н	Н
YA0278 CH3- →	YA0276	CH3-	Br—⟨⟩ıı.{	Н	н
YA0279 CH3- CH3- H H H YA0280 CH3- CH3- H H H YA0281 CH3- H3C H H H YA0282 CH3- H3C H H H YA0283 CH3- C2H5- H H H YA0284 CH3- CC2H5- H H H YA0285 CH3- CH3- H H H YA0286 CH3- HO H H H YA0288 CH3- HO H H H YA0289 CH3- H3CO H H H YA0291 CH3- H3CO H H H YA0293 CH3- H3CO H H H	YA0277	CH3-		Н	н
YA0280 CH3- CH3- H H YA0281 CH3- H3C H H YA0282 CH3- H3C- H H YA0283 CH3- C2H5- H H YA0284 CH3- In-C3H7- H H YA0285 CH3- In-C4H9- H H YA0286 CH3- OH H H YA0287 CH3- HO- H H YA0288 CH3- HO- H H YA0290 CH3- H3CO- H H YA0291 CH3- H3CO- H H YA0293 CH3- H3CO- H H YA0293 CH3- H3CO- H H YA0293 CH3- H3CO- H H	YA0278	СН3-	├	Н	н
YA0280 CH3- → 1 H H YA0281 CH3- → 1 H H H YA0282 CH3- H3C- H H H YA0283 CH3- C2H5- H H H YA0284 CH3- n-C3H7- H H H YA0285 CH3- n-C4H9- H H H YA0286 CH3- OH H H H YA0287 CH3- HO H H H YA0288 CH3- HO H H H YA0290 CH3- H3CO H H H YA0291 CH3- H3CO H H H YA0293 CH3- H3CO H H H YA0293 CH3- H3CO H H H	YA0279	СН3-		н	н
YA0281 CH3- H H H YA0282 CH3- H3C- H H H YA0283 CH3- C2H5- H H H YA0284 CH3- In-C3H7- H H H YA0285 CH3- In-C4H9- H H H YA0286 CH3- OH H H H YA0287 CH3- HO H H H YA0288 CH3- HO H H H YA0290 CH3- H3CO H H H YA0291 CH3- H3CO H H H YA0293 CH3- H3CO H H H YA0293 CH3- H3CO H H H YA0293 CH3- H3CO H H H	YA0280	снз-	△	Н	н
YA0283 CH3- C₂H₅ H H YA0284 CH3- n-C₃H₁ H H YA0285 CH3- n-C₄H9 H H YA0286 CH3- OH H H YA0287 CH3- HO H H YA0288 CH3- HO H H YA0289 CH3- OCH₃ H H YA0290 CH3- H₃CO H H YA0291 CH3- H₃CO H H YA0293 CH3- H₃CO H H YA0293 CH3- H₃CO H H	YA0281	СН3-	H ₃ C	Н	Н
YA0284 CH3- n-C₃H₁- H H H YA0285 CH3- n-C₄H₂- H H H YA0286 CH3- OH H H H YA0287 CH3- HO- H H H YA0288 CH3- HO- H H H YA0289 CH3- OCH₃- H H H YA0290 CH3- H₃CO- H H H YA0291 CH3- H₃CO- H H H YA0293 CH3- H₃CO- H H H YA0294 CH3- H₃CO- H H H YA0294 CH3- H₃CO- H H H	YA0282	СН3-	H ₃ C-{}_{	н	Н
YA0285 CH3- n-C₄H9- H H H YA0286 CH3- OH H H H H H YA0287 CH3- HO H H H H H YA0288 CH3- HO H H H H H YA0289 CH3- H3CO H H H H H H YA0290 CH3- H3CO H H H H H H H YA0291 CH3- H3CO H H H H H H H H H H H H H H H H H H H	YA0283	СН3-	C ₂ H ₅ -{	Н	Н
YA0286 CH3- OH H H A A	YA0284	СН3-	n-C ₃ H ₇ {}	Н	Н
YA0286 CH3- H H H YA0287 CH3- HO- H H H YA0288 CH3- HO- H H H YA0289 CH3- OCH3 H H H YA0290 CH3- H3CO H H H YA0291 CH3- H3CO H H H YA0292 CH3- H3CO H H H YA0293 CH3- H3CO H H H	YA0285	СН3-		Н	Н
YA0287 CH3- HO- H H H YA0288 CH3- HO- H H H YA0289 CH3- OCH3- H H H YA0290 CH3- H3CO- H H H YA0291 CH3- H3CO- H H H YA0292 CH3- H3CO- H H H YA0293 CH3- H3CO- H H H	YA0286	СН3-		Н	н .
YA0289 CH3- OCH3 H H YA0290 CH3- H3CO H H YA0291 CH3- H3CO H H YA0292 CH3- H3CO H H YA0293 CH3- H3CO H H H YA0294 CH3- CH3- CH3- H H H	YA0287	CH3-	HO →	н	н
YA0289 CH3- H_3 CO H H YA0290 CH3- H_3 CO H H YA0291 CH3- H_3 CO H H YA0292 CH3- H_3 CO H H YA0293 CH3- H_3 CO H H	YA0288	СН3-	,	Н	н
YA0290 CH3- H H H YA0291 CH3- H3CO- H H H YA0292 CH3- H3CO- H H H YA0293 CH3- H3CO- H H H YA0294 CH3- CH3- CH3- H H H	YA0289	СН3	│	Н	н
YA0292 CH3- H ₃ CO- H YA0293 CH3- H ₃ CO- H YA0294 CH3- H YA02	YA0290	CH3-	H ₃ CO	Н	Н
YA0293 CH3- H ₃ CO- H H H	YA0291	СН3-	H₃CO- ⟨ }-{	Н	Н
VA0204 OUD OC2H5	YA0292	СН3-	H₃CO-{_}	Н	Н
VAN20// 1 000 1 /	YA0293	СН3-		Н	Н
	YA0294	СН3-	OC ₂ H ₅	Н	Н

No.	R1	R2	R3	L R4
YA0295	CH3-	C ₂ H ₅ O	Н	Н
YA0296	СН3-	C ₂ H ₅ O-{}	н	- Н
YA0297	CH3-	n-C ₃ H ₇ O-	н	Н
YA0298	СН3-	n-C ₄ H ₉ O-{{}}	Н	н
YA0299	CH3-	NO ₂	н	н
YA0300	CH3-	O ₂ N	н	Н
YA0301	CH3-	O ₂ N-{	Н	н
YA0302	СН3-	CN →	Н	Н
YA0303	CH3	NC	Н	Н
YA0304	СН3-	NC-{}	Н	Н
YA0305	CH3-	CF ₃	Н	Н
YA0306	CH3-	F ₃ C	н	Н
YA0307	СН3-	F ₃ C-{	Н .	Н
YA0308	CH3-	COOH	Н	Н
YA0309	CH3-	HOOC	н	Н
YA0310	CH3-	H00C-{_}-{	н	Н
YA0311	CH3-	CO ₂ Me	. н	н
YA0312	CH3-	MeO ₂ C	Н	Н
YA0313	CH3-	MeO ₂ C-{{}	Н	Н
YA0314	СН3-	CO₂Et	Н	Н
YA0315	CH3-	EtO ₂ C	Н	Н

No.	R1	R2	R3	R4
YA0316	CH3-	EtO ₂ C-{{}	н	Н
YA0317	СН3-	SMe	н	Н
YA0318	СН3-	MeS	н	Н
YA0319	снз-	MeS-{}	Н	н
YA0320	СН3-	SO₂Me	Н	Н
YA0321	CH3-	MeO ₂ S	Н	Н
YA0322	СН3-	MeO ₂ S-{	Н	Н
YA0323	СН3-	NH ₂	Н	Н
YA0324	СН3-	H ₂ N	Н	. н
YA0325	СН3-	H ₂ N-\\\\\\\\\	Н	Н
YA0326	СН3-	NMe ₂	н	Н
YA0327	СН3-	Me ₂ N	н	Н
YA0328	CH3-	Me ₂ N-{}	н	н
YA0329	CH3-		Н	Н
YA0330	СН3-		н	Н
YA0331	CH3-	Cv-⟨;	н	н
YA0332	CH3-	ON-	н	Н
YA0333	CH3-	(N-()	Н	Н
YA0334	СН3-	\n-\(\)-\	Н	Н
YA0335	CH3		Н	Н
YA0336	CH3-		Н	Н

No.	R1	R2	R3	R4
YA0337	CH3-	O_N-{_}-{	н	н
YA0338	СН3-	H ₃ CN N-	н	Н
YA0339	CH3-	H ₃ CN N-	Н	Н
YA0340	сн3	H3CN_N-{}	Н	н
YA0341	CH3-	H ₃ C_CH ₃	н	Н
YA0342	СН3-	H ₃ C-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н
YA0343	СН3-	CH₃ H₃C	Н	н .
YA0344	СН3-	CH₃ CH₃	Н	н
YA0345	CH3-	H ₃ C H ₃ C—{}	н	н
YA0346	CH3-	H ₃ C	н	н
YA0347	снз-	F_F	Н	н
YA0348	СН3-	F— F	Н	н
YA0349	СН3-	Ş ^F F	н	н
YA0350	СН3-	F.	Н	н
YA0351	снз-	F———	н	Н
YA0352	СН3-	F	Н	Н

No.	R1	R2	R3	R4
YA0353	CH3-	a J	Н	Н
YA0354	СН3-	CI CI	Н	н
YA0355	CH3-	CI	Н	н
YA0356	CH3-	σ	Н	Н
YA0357	CH3-	CI	н	Н

No.	R1	R2	R3	
110.	1	CI	l no	R4
YA0358	CH3-	CI	Н	н
YA0359	СН3-	H₃CO OCH₃	Н	н
YA0360	СН3-	H ₃ CO-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	н
YA0361	СН3-	OCH ₃ H₃CO	н	н
YA0362	СН3~	OCH ₃ OCH ₃	н	н
YA0363	СН3-	H₃CO H₃CO —}	н	Н
YA0364	СН3-	H₃CO H₃CO	н	Н
YA0365	СН3-	F_OCH ₃	н	Н
YA0366	СН3-	OCH ₃	Н	Н
YA0367	СН3-	OCH ₃	Н	н
YA0368	CH3-	OCH ₃	Н	н
YA0369	CH3-	OCH₃ F	н	н.
YA0370	CH3-	OCH₃ F	Н	н
YA0371	CH3-	H₃CO F—⟨□}—;	Н	Н
YA0372	CH3-	H₃CO F	н	Н
YA0373	CH3-	H₃CO_F →	н	Н

No.	R1	R2	R3	R4
YA0374	СН3-	H₃CO-⟨¯¯¯}F	Н	Н
YA0375	СН3-	H ₃ CO	н	Н
YA0376	СН3-	H₃CO-⟨¯);	Н	Н
YA0377	CH3-	CI_OCH ₃	Н	н
YA0378	CH3-	OCH ₃	Н	н

No.	R1	R2	R3	R4
YA0379	CH3-	OCH₃ CI	н	н
YA0380	CH3-	OCH ₃	н	н
YA0381	CH3-	H ₃ CO CI———————————————————————————————————	н	н
YA0382	СН3-	H ₃ CO	н	н
YA0383	СН3-	H₃CO_CI	H.	н
YA0384	СН3-	H₃CO-⟨¯⟩—{	Н	· н
YA0385	СН3-	,CI ∰ H₃CO	н	н
YA0386	СН3-	CI H₃CO-⟨¯¯)—}	Н	Н
YA0387	СН3-	F_CH ₃	Н	Н
YA0388	СН3-	CH₃ F—∰-¦	Н	н
YA0389	CH3-	CH ₃ F ·	Н	Н
YA0390	СН3-	CH₃ F	Н	н
YA0391	СН3-	H ₃ C F—{}-{	н	Н
YA0392	СН3-	H ₃ C F	Н	Н
YA0393	CH3-	H₃C_F	Н	Н
YA0394	CH3-	H₃C-⟨¯¯⟩→;	Н	Н

No.	R1	R2	R3	R4
YA0395	CH3-	H ₃ C	н	Н
YA0396	СН3-	F. H₃C-√_}-;	Н	н
YA0397	CH3-	Br_OCH₃	Н	H _.
YA0398	CH3-	OCH₃ Br—	Н	Н
YA0399	СН3-	OCH ₃ Br	н	Н

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No.	R1	R2	R3	R4
YA0400	CH3-	OCH ₃ Br	н	н
YA0401	CH3-	H₃CO Br—	Н	Н
YA0402	CH3-	H₃CO Br	Н	н
YA0403	СН3-	H ₃ CO_Br	Н	Н
YA0404	СН3-	H ₃ CO-⟨□⟩→	н	Н
YA0405	CH3-	Br H₃CO	Н	Н
YA0406	СН3-	H ₃ CO-	Н	Н
YA0407	СН3-	H ₃ CO_}	Н	Н
YA0408	СН3-	OCH ₃	н	Н
YA0409	СН3-	CN-C≥OCH3	Н	Н
YA0410	СН3-	H ₃ CO \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	Н	Н
YA0411	СН3-	H ₃ CO N-\\\	Н	Н
YA0412	СН3-	OCH³	Н	Н
YA0413	СН3-	F-(\$\frac{F}{2}\) F	Н	Н
YA0414	СН3-	OCH ₃ F—{} F	Н	Н

No.	R1	R2	R3	R4
YA0415	CH3~	H₃CO-{∑_{}{}{}{}{}{}{}{}{}{}{}{}{}{}{}{}{}{}{	н	н
YA0416	СН3-	OCH ₃ F-<->->-> OCH ₃	Н	н
YA0417	СН3-	H ₃ CO-{_}} OCH ₃	Н	н
YA0418	СН3-	CI CI	н	н
YA0419	СН3-	OCH ₃ CI	Н	Н
YA0420	СН3-	CI H₃CO-⟨}-; CI	н	Н

No.	R1	R2	R3	R4
YA0421	СН3-	OCH ₃ CI—{_}_} OCH ₃	н	Н
YA0422	СН3-	H ₃ CO-{_}\\} OCH ₃	Н	н
YA0423	CH3-	OCH ₃	Н	Н
YA0424	СН3-	H ₃ CO	Н	н
YA0425	СН3-	H ₃ CO-{\rightarrow}-{\rightarrow}-{\rightarrow}-{\rightarrow}	Н	н
YA0426	СН3-	OCH ₃ }\	Н	Н
YA0427	СН3-	H ₃ CO ,	Н	н
YA0428	СН3-	н₃со-⟨_>-⟨_>	Н	Н
YA0429	СН3-	OCH ₃	Н	Н
YA0430	CH3-	H ₃ CQ	Н	H
YA0431	СН3-	H₃CO-⟨_	н	Н
YA0432	СН3-	□	Н	Н
YA0433	СН3-	F	Н	Н
YA0434	CH3-	F-{\}-{\}-\}	н	Н
YA0435	СН3-	of the state of t	Н	Н
YA0436	СН3-	F	Н	н

No.	R1	R2	R3	R4
YA0437	CH3	F-{	н	Н
YA0438	CH3-		Н	Н
YA0439	CH3-		Н	Н
YA0440	CH3-	F-()	Н	Н
YA0441	CH3-		Н	Н

No.	R1	R2	R3	R4
YA0442	СН3-	CC	Н	Н
YA0443	СН3-	L L	Н	Н
YA0444	СН3-	HNZ	Н	Н
YA0445	СН3-	Or i	н	н
YA0446	СН3-	62,	Н	Н
YA0447	CH3-	ST	н	Н
YA0448	CH3-	S,	Н	Н
YA0449	СН3-	HNN .	Н	Н
YA0450	СН3-	HN	Н	Н
YA0451	СН3-	HN /	н	Н
YA0452	СН3-	N. N.	н	Н
YA0453	СН3-	ON ,	н	Н
YA0454	CH3-	N=	Н	н
YA0455	CH3-	NO Y	н	Н
YA0456	CH3-	S _N ,	Н	н
YA0457	CH3-	N= S	н	н
YA0458	CH3-	N-S	Н	Н
YA0459	CH3-	SN O, Sy	Н	Н
YA0460	CH3-	(N)	н	Н
YA0461	CH3-	N ,	н	Н
YA0462	CH3-	S./	Н	Н

No.	R1	R2	R3	R4
YA0463	CH3-	S	н	н
YA0464	CH3-	S Z	. н	н
YA0465	снз-		н	H
YA0466	CH3-	\	Н	Н .
YA0467	CH3-		Н	Н
YA0468	СН3-	⟨N N N	Н	Н
YA0469	СН3-	N_N	Н	н
YA0470	СН3-	N-N-1	Н	н
YA0471	СН3-	CYNT N	Н	Н
YA0472	СН3-		Н	н
YA0473	СН3-		#	н
YA0474	СН3-		I	Н
YA0475	CH3-	·CY	н	Н
YA0476	CH3-		Н	Н
YA0477	CH3-		Н	Н
YA0478	CH3-		Н	Н
YA0479	CH3-	Ŭ;	Н	Н
YA0480	CH3-	T)	Н	Н
YA0481	CH3-	,(C)	Н	Н
YA0482	СН3-	Ţ?	Н	Н
YA0483	СН3-	(I)+1	н	Н

No	R1	R2	R3	R4
YA0484		\ \rangle \rangle^2		
1 70404	CH3-	U.S.	Н	н
YA0485	СН3-		Н	Н
YA0486	СН3-	T)	Н	Н
YA0487	CH3-	,CTS	Н	Н
YA0488	CH3-	ÇT\$	Н	Н
YA0489	СН3-	CÀ	н	н
YA0490	CH3-		Н	н
YA0491	CH3-	T Tiv	Н	н
YA0492	CH3-	, CTN	Н	Н
YA0493	СН3-	ÇŢ'n	Н	Н
YA0494	CH3-	OTN-1	н	Н
YA0495	CH3-	Č _N	Н	Н
YA0496	CH3-	, Ch	Н	н
YA0497	CH3-		Н	н
YA0498	CH3-	N N	н	Н
YA0499	CH3-	, CI,	Н	Н
YA0500	CH3-	, ON	. н	Н
YA0501	СН3-	Ţ;	н	Н
YA0502	CH3-	(Is)	Н	Н
YA0503	CH3-	Ĭ,	Н	н
YA0504	СН3-	T S	Н	Н

No.	R1	R2	R3	R4
YA0505	CH3-	, CI'S	н	Н .
YA0506	CH3-	ÇN, SN,	н	Н
YA0507	СН3-		Н	Н
YA0508	СН3-	Č N	н	Н
YA0509	СН3-	THE TOTAL	Н	н
YA0510	СН3-	,CC)	н	н
YA0511	СН3-	Ĉ.	н	н
YA0512	СН3-	(),	Н	Н
YA0513	CH3-	Ĩ,	Н	Н
YA0514	СН3-	"Clan	н	Н
YA0515	СН3-	,CT _S N	Н	. н
YA0516	СН3-	Ť.	Н	Н
YA0517	СН3-	Ţ.	Н	Н
YA0518	CH3-	,(C),	Н	Н
YA0519	СН3-	TOO	Н	Н
YA0520	СН3-	Ţ,	Н	Н
YA0521	CH3-	СН3-	. Н	CH3
YA0522	CH3-	CH3CH2-	Н	СНЗ
YA0523	CH3-	∕ ∕\	н	СНЗ
YA0524	CH3-	Y	Н	CH3
YA0525	СН3-	\\\\	Н	СНЗ

No.	R1	R2	R3	
		1 ,	1 73	R4
YA0526	CH3-		Н	СНЗ
YA0527	СН3-		Н	СНЗ
YA0528	CH3-	六	Н	СНЗ
YA0529	CH3-	~~ `	Н	СНЗ
YA0530	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СНЗ
YA0531	СН3-	X	Н	СНЗ
YA0532	СН3-	7	Н	СНЗ
YA0533	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н .	СНЗ
YA0534	СН3-		Н	СНЗ
YA0535	СН3-	^ ^ \	Н	СНЗ
YA0536	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СНЗ
YA0537	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	СНЗ
YA0538	CH3-		Н	CH3
YA0539	СН3-		Н	СНЗ
YA0540	CH3-		н	CH3
YA0541	CH3-		Н	СНЗ
YA0542	CH3-	$\triangleright \rightarrow$	Н	СНЗ
YA0543	CH3-	\Diamond	Н	СНЗ
YA0544	CH3-		н	СНЗ
YA0545	СН3−,	\bigcirc \dashv	Н	СНЗ
YA 0 546	СН3-		Н	CH3

No.	R1	R2	R3	R4
YA0547	CH3-		Н	СНЗ
YA0548	CH3-		Н	СНЗ
YA0549	СН3-		Н	снз
YA0550	CH3-	F 	Н	СНЗ
YA0551	СН3-	F	Н	СНЗ
YA0552	СН3-	F-(-)(Н	СНЗ
YA0553	CH3-	F-(-)	н	СНЗ
YA0554	CH3-	F—Qin4	н	СНЗ
YA0555	СН3-	CI →	н	СН3
YA0556	CH3-	CI	, н	СН3
YA0557	CH3-	C⊢∕}{	н	СН3
YA0558	CH3-	C ├ ───	Н	СН3
YA0559	CH3-	CH	Н	CH3 .
YA0560	CH3-	Br	Н	СН3
YA0561	CH3-	Br. —∤	Н	CH3
YA0562	CH3-	Br—{}	Н	СН3
YA0563	CH3-	Br—{}	H	СНЗ
YA0564	СН3-	Br—(Н	СН3
YA0565	СН3-	 	Н	СНЗ
YA0566	СН3-		Н	CH3
YA0567	СН3-	 	н	CH3

No.	R1	R2	R3	D4
YA0568	CH3-	CH₃	Н	R4 CH3
YA0569	СН3-	H ₃ C	Н	CH3 .
YA0570	СН3-	H ₃ C-{\rightarrow}{	Н	СНЗ
YA0571	CH3-	C ₂ H ₅ -{	Н	СНЗ
YA0572	СН3-	n-C ₃ H ₇ -{	Н	СНЗ
YA0573	СН3-	n-C ₄ H ₉ -{_}-{	н	СНЗ
YA0574	CH3-	OH OH	Н	СНЗ
YA0575	CH3-	HO.	н	СНЗ
YA0576	CH3-	HO-{\bigcirc}{	Н	СНЗ
YA0577	CH3-	OCH ₃	н	СНЗ
YA0578	СН3-		Н `	СНЗ
YA0579	CH3-	H₃CO- ⟨ _}-{	н	СНЗ
YA0580	CH3-	H₃CO- ⟨> -{	н	СНЗ
YA0581	CH3-	H ₃ CO-	Н	CH3
YA0582	CH3-	OC ₂ H ₅	Н	CH3
YA0583	CH3-	C ₂ H ₅ O	Н	снз
YA0584	CH3-	C ₂ H ₅ O-{}	. Н	СНЗ
YA0585	CH3-	n-C ₃ H ₇ O-{_}-{	Н	СНЗ
YA0586	CH3-	n-C₄H ₉ O-⟨}	Н	СНЗ
YA0587	CH3-	NO ₂	Н	СНЗ
YA0588	CH3-	O ₂ N	Н	СНЗ

No.	R1	R2	R3	R4
YA0589	СН3-	O ₂ N-{	н	СН3
YA0590	СН3-	_CN ⟨_>_{;}	н	СНЗ
YA0591	СН3-	NC \	Н	СНЗ
YA0592	СН3-	NC-{}-{	Н	СНЗ
YA0593	CH3-	CF ₃	Н	СНЗ
YA0594	СН3-	F ₃ C	Н	СНЗ
YA0595	CH3-	F ₃ C-{	Н	СНЗ
YA0596	CH3-	COOH	Н	СНЗ
YA0597	СН3-	HOOC	Н	СН3
YA0598	СН3-	HOOC-{_}-{	Н	CH3
YA0599	СН3-	CO₂Me	Н	СН3
YA0600	СН3-	MeO ₂ C }–ţ	н	СНЗ
YA0601	СН3-	MeO ₂ C-∕}	Н	СНЗ
YA0602	СН3-	CO ₂ Et	н	СНЗ
YA0603	СН3-	EtO ₂ C	н	CH3
YA0604	СН3-	EtO ₂ C-{}	Н	СНЗ
YA0605	СН3-	SMe	Н	СНЗ
YA0606	СН3-	MeS	Н	СН3
YA0607	СН3-	MeS-{\rightarrow}-{	Н	СНЗ
YA0608	сн3-	SO ₂ Me	Н	СНЗ
YA0609	CH3-	MeO ₂ S	Н	СНЗ

No.	R1	R2	R3	R4
YA0610	CH3-	MeO ₂ S-{}	Н	СНЗ
YA0611	CH3-	NH ₂	.н	СНЗ
YA0612	CH3-	H ₂ N	Н	СНЗ
YA0613	CH3-	H ₂ N-\	н	СНЗ
YA0614	CH3-	NMe ₂	H	СНЗ
YA0615	СН3-	Me ₂ N	Н	СНЗ
YA0616	СН3-	Me ₂ N-⟨¯⟩{	Н	СНЗ
YA0617	СН3-	Cn-⟨S	Н	СНЗ
YA0618	СН3-		н	СНЗ
YA0619	СН3-	_N-{_}-1	Н	СНЗ
YA0620	снз-		Н	СН3
YA0621	СН3-	○n-○	Н	СН3
YA0622	СН3-	_v-<_}-;	Н	CH3
YA0623	CH3-		Н	CH3
YA0624	CH3-	_N	Н	CH3
YA0625	CH3-	<u>~~~</u>	Н	CH3
YA0626	CH3-	H ₃ CN N-	. H	СНЗ
YA0627	CH3-	H₃CN N-⟨	Н	СНЗ
YA0628	CH3-	H₃CN_N-{}-}	Н	CH3
YA0629	CH3-	H ₃ C_CH ₃	Н	СНЗ
YA0630	CH3-	CH ₃	Н	СНЗ

No.	R1	R2	R3	R4
YA0631	СН3-	CH ₃ H ₃ C	Н	CH3
YA0632	СН3-	CH₃ CH₃	н	СНЗ
YA0633	CH3-	H ₃ C H ₃ C-\	н	СНЗ
YA0634	СН3-	H ₃ C H ₃ C	Н	СНЗ
YA0635	СН3-	F F	Н	СНЗ
YA0636	СН3-	F—F	Н	СНЗ
YA0637	СН3-	F F	Н	СНЗ
YA0638	СН3-	€ F	Н	СНЗ
YA0639	СН3	F————	Н	СНЗ
YA0640	СН3-	F F	Н	СНЗ
YA0641	СН3-	CI_CI	Н	СНЗ
YA0642	CH3-	cı—⟨¯	Н	СНЗ
YA0643	СН3-	CI	Н	СНЗ
YA0644	СН3-	CI CI	Н	СНЗ

No.	R1	R2	_R3	R4
YA0645	CH3-	CI CI	Н	СНЗ
YA0646	СН3-	CI	Н	СНЗ
YA0647	СН3-	H₃CO_OCH₃	Н	СНЗ
YA0648	СН3-	OCH ₃ H₃CO-⟨□}→	н	СНЗ
YA0649	CH3-	OCH₃ → H₃CO	Н	СНЗ
YA0650	СН3-	OCH ₃ OCH ₃	Н	СНЗ
YA0651	СН3-	H₃CO H₃CO-⟨¯¯¯	Н	СНЗ

No.	R1	R2	T	
YA0652	CH3-	H ₃ CO	R3 H	CH3
YA0653	СН3-	F_OCH ₃	н	СНЗ
YA0654	СН3-	OCH ₃ F-√∑}	н	СНЗ
YA0655	СН3-	OCH ₃ F—⟨S	Н	СНЗ
YA0656	СН3-	OCH ₃ F—⟨⟩ıı·∤	Н	СНЗ
YA0657	СН3-	OCH₃ F	Н	СНЗ
YA0658	СН3-	OCH₃ F	Н	. СН3
YA0659	СН3-	H₃CO F—⟨¯¯	н	СНЗ
YA0660	CH3~	H₃CO F	Н	СНЗ
YA0661	СН3-	H ₃ CO_F	н	СНЗ
YA0662	CH3-	H₃CO-⟨\$\frac{F}{-}}	Н	СНЗ
YA0663	СН3-	F H₃CO	Н	СНЗ
YA0664	СН3-	H₃CO-⟨	Н	СНЗ
YA0665	СН3-	CI_OCH ₃	Н	СНЗ

No.	R1	R2	R3	R4
YA0666	СН3-	OCH₃ CI—	Н	Снз
YA0667	СН3	OCH ₃ CI	Н	СНЗ
YA0668	СН3-	OCH ₃ CI	Н	СНЗ
YA0669	CH3-	H ₃ CQ CI—∰	Н	СНЗ
YA0670	CH3	H₃CO CI	Н	СН3
YA0671	CH3-	H₃CO_CI	Н	СН3
YA0672	CH3-	H₃CO-⟨¯¯⟩→	Н	СНЗ

No.	R1	R2	I D0	
140.	"		R3	R4
YA0673	СН3-	H₃CO	Н	снз
YA0674	СН3-	CI H ₃ CO-	Н	СНЗ
YA0675	СН3	F_CH ₃	Н	СНЗ
YA0676	СН3-	CH ₃ F—⟨S	Н	СНЗ
YA0677	СН3-	CH ₃ F	Н	СНЗ
YA0678	CH3-	CH₃ F	н	СНЗ
YA0679	СН3-	H₃C F—⟨S)—{	Н	СНЗ
YA0680	CH3-	H ₃ C	Н	СНЗ
YA0681	CH3-	H ₃ C F	Н	СНЗ
YA0682	СН3-	H₃C-⟨\$\\\}	Н	СНЗ
YA0683	CH3-	H ₃ C	Н	снз
YA0684	СН3-	F_ H₃C-⟨¯¯ <mark>></mark> →	Н	СНЗ
YA0685	CH3-	Br_OCH ₃	н	СНЗ
YA0686	СН3-	OCH₃ Br—{	Н	СНЗ

No.	R1	R2	R3	R4
YA0687	CH3-	OCH₃ Br	Н	СНЗ
YA0688	СН3-	OCH ₃ Br	Н	СНЗ
YA0689	СН3-	H₃CO Br—	H.	СНЗ
YA0690	СН3-	H₃CO Br	Н	СНЗ
YA0691	СН3-	H₃CO_Br	Н	СНЗ
YA0692	СН3-	Br H₃CO-⟨¯¯⟩→}	Н	СНЗ
YA0693	СН3-	H ₃ CO	Н	СНЗ

No.	R1	R2	R3	R4
YA0694	СН3-	Br H ₃ CO	Н	CH3
YA0695	СН3-	H ₃ CO >	Н	СНЗ
YA0696	СН3-	OCH ₃	Н	СНЗ
YA0697	СН3-	CN-C}-OCH₃	н	СНЗ
YA0698	СН3-	H₃CO → N	Н	СНЗ
YA0699	CH3-	H ₃ CO	н	СНЗ
YA0700	CH3-	OCH3	Н	СНЗ
YA0701	CH3-	F——F	Н	СНЗ
YA0702	СН3-	OCH₃ F—⟨_→; F	Н	СНЗ
YA0703	СН3-	H₃CO-{\} F	Н	СНЗ
YA0704	CH3-	OCH ₃ F—∑→} OCH ₃	Н	СНЗ
YA0705	СН3	OCH ₃ H ₃ CO-{_}} OCH ₃	Н	СНЗ
YA0706	CH3-	CI CI	Н	СНЗ
YA0707	СН3-	CCH₃ CI	н	СНЗ

No.	R1	R2	R3	R4
YA0708	СН3-	H ₃ CO-{_}{} CI	н	СНЗ
YA0709	снз-	OCH ₃ CI—⟨/ OCH ₃	н	СНЗ
YA0710	CH3-	OCH ₃ H ₃ CO-{_}-{ OCH ₃	Н	СНЗ
YA0711	СН3-	OCH ₃	Н	CH3
YA0712	СН3-	H ₃ CO	Н	СНЗ
YA0713	CH3-	H₃CO- { }-{}-{}-{}-{}-{}-{}-{}-{}-{}-{}-{}-{}-{}	н	СНЗ
YA0714	СН3-	OCH ₃ }:	Н	СНЗ

No.	R1	R2	R3	R4
YA0715	CH3-	H ₃ CO \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	CH3
YA0716	CH3-	H ₃ CO-{\bigs\}	Н	СНЗ
YA0717	СН3-	OCH ₃	Н	СНЗ
YA0718	СН3-	H ₃ CO	Н	СНЗ
YA0719	CH3-	H ₃ CO-	Н	СНЗ
YA0720	СН3-	F	Н	СНЗ
YA0721	СН3	F	Н	СНЗ
YA0722	СН3-	F-{_}-{_}-{_}-{_}-{_}-{_}-{_}-{_}-{_}-{_}	н	СНЗ
YA0723	СН3-		н	. СН3
YA0724	CH3-	, , , , , , , , , , , , , , , , , , ,	Н	СНЗ
YA0725	СН3-	F-(2)-(2)	Н	СНЗ
YA0726	CH3-	∅ - √	н	СНЗ
YA0727	СН3-		Н	СНЗ
YA0728	CH3-	F-(-)-(-)	Н	СН3

No.	R1	R2	R3	R4
YA0729	СН3-		н	СНЗ
YA0730	СН3-		Н	СНЗ
YA0731	CH3-	СН3-	Н	Q
YA0732	СН3-	CH3CH2-	н	
YA0733	СН3-	∼ ∖\	Н	
YA0734	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Qu
YA0735	СН3-	\\\\	Н	Q

No.	R1	R2	R3	R4
YA0736	СН3-	人工	Н	
YA0737	СН3-	~	Н	Q
YA0738	СН3-	丫	Н	Q
YA0739	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Q
YA0740	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Q
YA0741	снз-	Xr	Н	Qu
YA0742	снз-	7	н	
YA0743	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	
YA0744	снз-		Н	Q
YA0745	CH3-	^ ~~``\``\`\``\`\`\`\`\`\`\`\`\`\`\`\`\`\	Н	Q
YA0746	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Q
YA0747	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	
YA0748	CH3-		Н	
YA0749	CH3-		Н	
YA0750	CH3-		Н	
YA0751	CH3-		Н	
YA0752	CH3-	\triangleright	Н	
YA0753	CH3-	\Diamond \Box	Н	
YA0754	CH3-	$\bigcirc \vdash \downarrow$	Н	
YA0755	СН3-	\bigcirc \dashv	н	
YA0756	CH3-	\bigcirc \vdash	Н	Qu

No.	R1	R2	R3	R4
YA0757	CH3-		Н	Qu
YA0758	CH3-		Н	Qu
YA0759	CH3-	_\limits\	Н	Qu
YA0760	снз-	F	Н	Q
YA0761	снз-	F;	н	Q
YA0762	СН3-	F-(){	Н	
YA0763	CH3-	F-()-{	Н	
YA0764	CH3-	F—{_}\{	Н	Q
YA0765	СН3-	CI	Н	Qi
· YA0766	CH3-	CI	н	Q
YA0767	CH3-	C⊢ ⟨ }	Н	Qi
YA0768	CH3-	c⊢ ⟨ }-∤	Н	
YA0769	CH3-	CI—(Н	
YA0770	СН3-	Br	Н	
YA0771	CH3-	Br.	Н	Q
YA0772	CH3-	Br—{}	Н	Qi
YA0773	CH3-	Br— ()→{	H	Qu
YA0774	CH3-	Br— (_)ı∵{	н	0,
YA0775	CH3-		Н	
YA0776	CH3-		Н	
YA0777	CH3-	 - -	н	Q.

No.	R1	, <u>D0</u>	T 50	
140.		CH ₃	R3	R4
YA0778	CH3-		н	Q
YA0779	CH3-	H ₃ C	н	Q
YA0780	СН3-	H ₃ C-{_}-{	Н	Q
YA0781	СН3-	C ₂ H ₅ -{	Н	Q
YA0782	СН3-	n-C ₃ H ₇ -{	н	Q
YA0783	СН3-	n-C ₄ H ₉ -{	Н	Q
YA0784	СН3-	OH OH	Н	Qr
YA0785	CH3-	HO HO	Н	Q
YA0786	CH3-	HO-{\bigci}{	н	Q
YA0787	CH3-	OCH ₃	н	Q
YA0788	CH3-	H ₃ CO	н	Q
YA0789	СН3-	H₃CO-{}-{	н	Qi
YA0790	CH3-	H₃CO- (){	н	Q
YA0791	СН3~	H₃CO-⟨⟩⊪-{	Н	Q
YA0792	CH3-	OC ₂ H ₅	Н	Qi
YA0793	CH3-	C ₂ H ₅ O	Н	Qu
YA0794	CH3-	C ₂ H ₅ O-{}	Н	Q
YA0795	CH3-	n-C ₃ H ₇ O-{}	н	Q.
YA0796	СН3-	n-C ₄ H ₉ O-{_}-{	Н	<u></u>
YA0797	CH3-	NO ₂	н	Q.
YA0798	CH3-	O ₂ N	н [

No.	R1	R2	R3	R4
YA0799		O ₂ N-{	н	
YA0800	СН3-	CN	Н	Q
YA0801	снз-	NC	Н	Q
YA0802	GH3-	NC-{}	н	Q
YA0803	CH3-	CF₃	Н	Q
YA0804	СН3-	F ₃ C	Н	Q
YA0805	CH3-	F ₃ C-{	Н	Q
YA0806	СН3-	COOH	н	Q
YA0807	СН3-	HOOC	н	
YA0808	СН3-	HOOC-{_}-{	Н	Q
YA0809	CH3-	CO ₂ Me	Н	
YA0810	CH3-	MeO ₂ C <u></u> _>–;	Н	Qi
YA0811	СН3-	MeO ₂ C-{{}	Н	Q
YA0812	CH3-	CO ₂ Et	Н	Q
YA0813	СН3-	EtO ₂ C	н	Qi
YA0814	CH3-	EtO ₂ C-{{}	н	Qi
YA0815	CH3-	SMe	. Н	Q
YA0816	CH3-	MeS <u></u>	Н	
YA0817	СН3-	MeS-{\rightarrow}-{\rightarrow}-{\rightarrow}	н	
YA0818	CH3-	SO₂Me <}⊣	н	
YA0819	CH3-	MeO ₂ S	н	

No.	R1		,	R4
YA0820	СН3-	MeO ₂ S-{{}}	R3 H	
YA0821	СН3-	NH ₂	Н	Q
YA0822	снз-	H ₂ N	Н	Q
YA0823	СН3-	H ₂ N-(Н	Q
YA0824	CH3-	NMe ₂	н	Q
YA0825	СН3-	Me ₂ N	Н	Q
YA0826	CH3-	Me ₂ N-√	Н	Q
YA0827	СН3-		Н	
YA0828	СН3-		Н	
YA0829	CH3-	_N-{_}-;	Н	Q
YA0830	СН3-	Cv-₹	Н	Q
YA0831	CH3-	CHQ.	н	Q
YA0832	CH3-	_N-{_}-;	Н	Q
YA0833	CH3-		Н	Q
YA0834	CH3-	< <u></u> N-€	н	Q
YA0835	CH3-	o_n-{_}-}	н	Q
YA0836	CH3-	H ₃ CN_N-	. н	Qu
YA0837	СН3-	H₃CN_N-⟨_}	н	Q.
YA0838	СН3-	H3CN_N-{}	н	Q.
YA0839	CH3-	H₃C_CH₃	н	
YA0840	CH3	CH ₃ H ₃ C-{}-{}	н [

No.	R1	R2	R3	R4
YA0841	СН3-	CH ₃ CH ₃ H ₃ C	Н	Q \
YA0842	СН3-	CH₃ CH₃	н	Q
YA0843	СН3-	H ₃ C H ₃ C-\	Н	Qu
YA0844	CH3-	H ₃ C H ₃ C	н	Q
YA0845	СН3-	FF	Н	Q
YA0846	СН3-	F—(□)—;	Н	Q
YA0847	CH3-	F F	н	
YA0848	CH3~	₽ F	H	
YA0849	CH3-	F—	н	
YA0850	CH3-	F F	Н	Q
YA0851	СН3-	CI_CI	н	Q
YA0852	CH3~	CI—⟨;	Н	Qr
YA0853	СН3-	CI CI	Н	Q
YA0854	CH3-	CI CI	н	
YA0855	CH3-	CI→	н	

No.	R1	R2	R3	R4
YA0856	СН3-	CI	Н	Qr
YA0857	CH3-	H₃CO_OCH₃	Н	Q
YA0858	СН3-	ОСН₃ Н₃СО-⟨∑∕—;	Н	Q
YA0859	СН3-	OCH ₃ → H ₃ CO	н	
YA0860	СН3-	OCH_3 OCH_3	H	Qu
YA0861	СН3-	H ₃ CO	Н	Qu

No.	R1	R2	R3	D4
		H ₃ CQ	110	R4
YA0862	CH3-	H ₃ CO	Н	
YA0863	СН3-	F_OCH ₃	Н	Qu
YA0864	СН3-	OCH ₃ F—√→	Н	Q
YA0865	СН3-	OCH₃ F—	н	Q
YA0866	СН3-	OCH ₃	Н	Q
YA0867	снз-	OCH₃	Н	Q
YA0868	СН3-	OCH ₃ F	Н	
YA0869	СН3	H₃CO F—	Н	Qu
YA0870	CH3-	H₃CO F	Н	Qu
YA0871	CH3-	H ₃ CO_F	Н	Q
YA0872	CH3-	H₃CO-⟨¯¯ <mark></mark> ≻→	Н	
YA0873	CH3-	H₃CO F	Н	Q
YA0874	СН3-	H₃CO-⟨¯¯}→	Н	
YA0875	СН3-	CI_OCH₃ →	н	Qu
YA0876	CH3-	OCH₃ CI—{\bigcirc}	н	Q

No.	R1	R2	R3	R4
YA0877	СН3-	OCH ₃ CI	Н	Qu
YA0878	СН3-	OCH ₃ CI	Н	Qu
YA0879	СН3-	H₃CQ Cl—√j	Н	Qu
YA0880	СН3-	H ₃ CO CI	Н	Qu
YA0881	СН3	H₃CO_CI	н	Qi
YA0882	СН3-	Cl H₃CO-⟨∑)—{	н	Qu

No.	R1	R2	R3	R4
YA0883	СН3-	H ₃ CO	H	Q ₁
YA0884	CH3-	CI H ₃ CO-	Н	Q
YA0885	CH3-	F_CH ₃	н	Qr
YA0886	СН3-	CH ₃ F—⟨S	н	Q
YA0887	СН3-	CH₃ ⇒ F	Н.	Q
YA0888	СН3-	CH₃ ← F	Н	Q
YA0889	СН3-	H ₃ C F—⟨□}—}	Н	Qu
YA0890	СН3-	H₃C F	Н	Qi
YA0891	СН3-	H ₃ C_F	Н	Qu
YA0892	CH3-	H₃C-⟨¯¯¯ <mark>F</mark>	Н	Qu
YA0893	CH3-	H₃C F	Н	Q
YA0894	СН3-	H₃C-⟨¯¯⟩→	Н	Q
YA0895	СН3-	Br_OCH ₃	Н	Q
YA 0 896	СН3-	OCH₃ Br—⟨ →	Н	Qr
YA0897	CH3-	OCH₃ Br	н	Q

No.	R1	R2	R3	R4
YA0898	СН3-	OCH ₃ Br	Н	Q
YA0899	СН3-	H₃CO Br—⟨	Н	
YA0900	СН3-	H₃CO Br	Н	Qu
YA0901	CH3-	H₃CO_Br	Н	Q
YA0902	СН3-	H₃CO-⟨□}	Н	Q
YA0903	СН3-	Br H ₃ CO	Н	

No.	R1	R2	R3	
YA0904		Br H ₃ CO-	Н	R4
YA0905	СН3-	H ₃ CO }	Н	Q
YA0906	CH3-	OCH ₃	Н	Qu
YA0907	СН3-	CN-⟨_}-OCH3	Н	Qu
YA0908	СН3-	H₃CO_} ()_N	Н	Qu
YA0909	СН3-	H ₃ CQ	н	Qu
YA0910	СН3-	OCH3	Н	Q
YA0911	СН3-	F-{-}-{}-{}-{}	Н	Q
YA0912	СН3-	OCH₃ F—⟨; F	н	Q
YA0913	СН3-	H₃CO-{∑}-{ F	Н	Qr
YA0914	CH3-	OCH ₃ F—⟨_}-; OCH ₃	н	Q
YA0915	CH3-	OCH ₃ H ₃ CO-{_}-} OCH ₃	Н	Q
YA0916	CH3-	CI—CI CI	н	
YA0917	СН3-	CI—(н	
YA0918	CH3-	H₃CO-⟨□}-; CI	н	

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No.	R1	R2	R3	T D4
YA0919	СН3-	OCH ₃ OCH ₃	Н	R4
YA0920	СН3-	OCH ₃ H ₃ CO-〈〉-{ OCH ₃	Н	Q
YA0921	CH3-	OCH ₃	Н	Q
YA0922	CH3-	H₃CO ————	Н	Q
YA0923	СН3-	H₃CO-{_}_{_}_{_}}	Н	Q
YA0924	СН3-	OCH ₃ \\	Н	Qi

No.	R1	R2	R3	R4
YA0925	CH3-	H ₃ CO	Н	Q
YA0926	СН3-	H₃CO- ⟨ \	Н	Qu
YA0927	СН3-	OCH ₃	Н	Q
YA0928	СН3~	H₃CO ————————————————————————————————————	Н	Qi
YA0929	СН3-	H ₃ CO-〈	н	Q
YA0930	СН3-	∅ - ○ -₁	н	Q
YA0931	CH3-	F	Н	Q
YA0932	CH3-	F-{_}-{}-{}	Н	
YA0933	СН3-	of the state of t	Н	
YA0934	CH3-		Н	
YA0935	CH3-	F-(Н	
YA0936	CH3-	Ø	Н	
YA0937	CH3-		Н	Qr
YA0938	CH3-	F-(Н	Qr
YA0939	СН3-		Н	Qr

No.	R1	R2	R3	R4
YA0940	СН3-		H	Qu
YA0941	снз-	CH3-	Н	گ
YA0942	СН3-	CH3CH2-	Н	l,
YA0943	СН3-	∕	Н	Ŷ,
YA0944	СН3~	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Ŷ,
YA0945	CH3-	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	<u>گ</u>

No.	R1	R2	R3	R4
YA0946	CH3-	人、	Н	Î,
YA0947	СН3-	7	Н	٩
YA0948	СН3-	丫	н	l _y ,
YA0949	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Ŷ,
YA0950	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Î,
YA0951	CH3-	X.	Н	Ŷ,
YA0952	СН3	7	Н	Ŷ,
YA0953	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	l,
YA0954	CH3-		Н	l,
YA0955	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Ŷ,
YA0956	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Î,
YA0957	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Ŷ,
YA0958	CH3-		Н	Ŷ,
YA0959	CH3-		Н	Å,
YA0960	CH3-		Н	, A
YA0961	CH3-		н	Ŷ,
YA0962	CH3-	ightharpoons	Н	Ĵ,
YA0963	CH3-	\Diamond	Н	<u>گ</u>
YA0964	СН3-	$\bigcirc \!$	Н	<u>گ</u>
YA0965	CH3-	\bigcirc	Н	Ů,
YA0966	CH3-	\bigcirc -1	н	

No.	R1	R2	R3	R4
YA0967	СН3-		н	Å,
YA0968	CH3-		Н	Ů,
YA0969	CH3-	⊘ …{	Н	Ů,
YA0970	CH3-	F —;	н	<u></u>
YA0971	СН3-	F	н	<u></u>
YA0972	СН3-	F-()1	н	Ŷ,
YA0973	СН3-	F-(-)	Н	<u></u>
YA0974	снз-	F———	н	il,
YA0975	СН3-	CI	Н	<u></u>
YA0976	СН3-	CI	н	<u></u>
YA0977	СН3-	C -{\bigci}	Н	Å,
YA0978	СН3-	c⊢ ()~∤	Н	Ŷ,
YA0979	СН3-	CH	Н	Å,
YA0980	СН3-	Br	Н	Å,
YA0981	СН3-	Br	Н	, , , , , , , , , , , , , , , , , , ,
YA0982	СН3-	Br—⟨{}	н	Å,
YA0983	CH3-	Br—{	Н	Ŷ,
YA0984	CH3-	Br—{	н	Å,
YA0985	CH3-		Н	Ŷ,
YA0986	CH3-		Н	Å,
YA0987	СН3-		Н	<u></u>

No.	R1	R2	R3	R4
YA0988	CH3-	CH₃ <a>};	н	<u>ڳ</u>
YA0989	CH3-	H ₃ C <u></u>	н	Ŷ,
YA0990	CH3-	H ₃ C-{	Н	بُ
YA0991	CH3-	C ₂ H ₅ -{_}	Н	Ŷ,
YA0992	CH3-	n-C ₃ H ₇ {}-{	Н	Ŷ,
YA0993	CH3-	n-C ₄ H ₉ -{_}	Н	Ŷ,
YA0994	CH3-	OH →	н	Ŷ,
YA0995	СН3-	HO ———	Н	<u></u>
YA0996	СН3-	HO-{	Н	Å,
YA0997	CH3-	OCH ₃	Н	Å,
YA0998	снз-	H₃CO ————————————————————————————————————	Н	Å,
YA0999	СН3-	H₃CO-⟨}-{	н	Å,
YA1000	CH3-	H₃CO-{\rightarrow}-{\rightarr	Н	٠
YA1001	СН3-	H ₃ CO-{\rightarrow}\m\{	н	Å,
YA1002	CH3-	OC ₂ H ₅	н	Å,
YA1003	СН3-	C ₂ H ₅ O	Н	<u>گ</u>
YA1004	CH3-	C ₂ H ₅ O-{	н	Ļ,
YA1005	CH3-	n-C ₃ H ₇ O-{}-{	Н	, Ly
YA1006	CH3-		Н	Ŷ,
YA1007	CH3-	NO ₂	Н	Ŷ,
YA1008	CH3-	O ₂ N{}	Н	Å,

No.	R1	R2	R3	R4
YA1009	CH3-	O ₂ N-{}	Н	Î,
YA1010	CH3-	CN	Н	Î,
YA1011	CH3-	NC →	н	Ŷ,
YA1012	CH3-	NC-{}-{	н	Ŷ,
YA1013	CH3-	CF ₃	Н	Ŷ,
YA1014	СН3-	F ₃ C —}	Н	O T
YA1015	CH3-	F ₃ C-{}-{	Н	Ŷ,
YA1016	СН3-	COOH	Н	<u></u>
YA1017	CH3-	HOOC	Н	
YA1018	CH3-	HOOC-{_}	Н	<u></u>
YA1019	CH3-	CO₂Me	н	Ŷ,
YA1020	CH3-	MeO ₂ C	Н	<u></u>
YA1021	CH3-	MeO ₂ C-{}	Н	٧,
YA1022	CH3-	CO ₂ Et	Н	Ŷ,
YA1023	CH3-	EtO ₂ C 	Н	<u></u>
YA1024	CH3-	EtO ₂ C-{}-{	Н	Å,
YA1025	СН3-	SMe	Н	Ŷ,
YA1026	CH3-	MeS	н	Ŷ,
YA1027	CH3-	MeS-{_}-{	Н	<u>گ</u>
YA1028	СН3-	SO ₂ Me	Н	Ŷ,
YA1029	CH3-	MeO ₂ S	н	<u></u> ,

No.	. R1	R2	R3	R4
YA1030	СН3-	MeO ₂ S-{_}	Н	<u></u>
YA1031	СН3-	NH ₂	н	Ŷ,
YA1032	СН3-	H ₂ N	Н	Ů,
YA1033	СН3-	H ₂ N-	Н	l _y
YA1034	СН3~	NMe ₂	Н	Ŷ,
YA1035	СН3-	IVIe₂N ————;	Н	Î,
YA1036	СН3-	Me ₂ N-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Ĵ,
YA1037	СН3-		Н	l,
YA1038	CH3-	CN-	Н	Ĵ,
YA1039	CH3-	CN-()-1	Н	Ĵ,
YA1040	CH3-		н	Ů,
YA1041	СН3-	\(\rightarrow\)	н	ů,
YA1042	СН3-		н	Ů,
YA1043	CH3-		Н	Ŷ,
YA1044	CH3-	○ N- ○ }	Н	Ŷ,
YA1045	CH3-	○ N- ○ -}	Н	ئى _
YA1046	СН3-	H ₃ CN N-	. Н	گې
YA1047	СН3-	H ₃ CN N-	н	گ,
YA1048	СН3-	H ₃ CNN-{}	Н	<u>ڳ</u>
YA1049	CH3-	H₃C_CH₃	Н	Ů,
YA1050	CH3-	CH ₃	Н	پ

No.	R1	R2	R3	R4
YA1051	СН3-	CH ₃ H ₃ C	Н	١,
YA1052	CH3	CH ₃ CH ₃	Н	l,
YA1053	CH3-	H ₃ C H ₃ C-\}	н	l,
YA1054	. СН3	H ₃ C H ₃ C	Н	l,
YA1055	CH3-	F_F	Н	l,
YA1056	СН3~	F—	Н	Ŷ,
YA1057	CH3-	F F	Н	2,
YA1058	СН3~	# ₩	н	<u>,</u>
YA1059	СН3-	F————	Η	Ŷ,
YA1060	СН3-	F.	Н	L,
YA1061	CH3-	CI	Н.	Ĵ,
YA1062	СН3-	cı—Çı	Н	Ĵ,
YA1063	. CH3-	a T a	Н	Ĵ,
YA1064	СН3-	CI CI CI	Н	Î,

No.	R1	R2	R3	R4
YA1065	CH3-	CI,	н	l,
YA1066	СН3-	CI	Н	Ŷ,
YA1067	CH3-	H₃CO_OCH₃	н	l,
YA1068	СН3~	OCH ₃ H₃CO-⟨∑)→	Н	L,
YA1069	СН3-	OCH ₃ H ₃ CO	Н	L,
YA1070	СН3-	OCH₃ OCH₃	Н	Ĵ,
YA1071	СН3-	H₃CO H₃CO-⟨¯¯} - -}	Н	<u>.</u> .

No.	R1	R2	R3	
YA1072	СН3-	H₃CO H₃CO	H	R4
YA1073	СН3-	F_OCH ₃	Н	Î,
YA1074	CH3-	OCH ₃ F—√	н	<u>گ</u>
YA1075	СН3-	OCH ₃ F—	Н	<u>گ</u>
YA1076	СН3-	OCH ₃ F—✓>···{	Н	Ŷ,
YA1077	СН3-	OCH ₃	Н	Ŷ,
YA1078	СН3-	OCH ₃	Н	Ŷ,
YA1079	СН3-	H₃CO F—⟨¯¯)—;	Н	گې
YA1080	CH3-	H ₃ CO	H	Ŷ,
YA1081	CH3-	H₃CO_F	Н	2,
YA1082	CH3-	F H₃CO-⟨¯¯́∕→}	Н	Ŷ,
YA1083	СН3-	F H₃CO	Н	<u>گ</u>
YA1084	СН3-	H₃CO-⟨_}-	Н	<u>گ</u>
YA1085	СН3-	CI_OCH ₃	Н	Ŷ,

No.	R1	R2	R3	R4
YA1086	СН3-	OCH₃ CI—	Н	2,
YA1087	СН3-	OCH₃ CI	Н	Ŷ,
YA1088	CH3-	OCH₃ CI	Н	Ŷ,
YA1089	снз-	H₃CQ CI—	Н	Ŷ,
YA1090	снз-	H₃CO CI	Н	L,
YA1091	СН3-	H₃CO_CI	Н	Ŷ,
YA1092	СН3-	H₃CO-⟨¯́)—;	Ή	Ĵ,

No.	R1	R2	R3	R4
	1 1 1	Cl	110	
YA1093	CH3-	H₃CO	н	١,
YA1094	CH3-	CI H³CO-{	Н	<u>L</u> ,
YA1095	CH3-	F_CH ₃	Н	<u>,</u>
YA1096	СН3-	CH ₃ F—√}	Н	<u></u> ,
YA1097	CH3-	CH₃ F	Н	Ŷ,
YA1098	CH3-	CH₃ F	Н	Ŷ,
YA1099	СН3-	H ₃ C F—{}	Н	l,
YA1100	СН3	H₃C F	Н	Ŷ,
YA1101	CH3-	H ₃ C_F	Н	Ĺ,
YA1102	CH3-	H ₃ C-⟨∑F	Н	Ŷ,
YA1103	CH3-	F H₃C	Н	Î,
YA1104	CH3-	F H₃C-⟨¯¯}→	Н	Î,
YA1105	CH3-	Br_OCH₃	Н	Ŷ,
YA1106	CH3-	OCH ₃ Br—⟨ →	Н	Î,

No.	R1	R2	R3	R4
YA1107	СН3-	OCH ₃ Br	Н	Ŷ,
YA1108	CH3-	OCH ₃	н	L,
YA1109	CH3-	H₃CQ Br—√	Н	Ŷ,
YA1110	CH3-	H₃CO Br	Н	Ļ,
YA1111	CH3-	H ₃ CO_Br	Н	L,
YA1112	СН3-	H₃CO-⟨SH	Н	Ŷ,
YA1113	СН3-	Br → H₃CO	н	<u>L</u> ,

No.	R1	R2	R3	T D4
YA1114	СН3-	Br. H ₃ CO-	Н	R4
YA1115	CH3-	H ₃ CO >	Н	Î,
YA1116	CH3-	OCH ₃	Н	, Å,
YA1117	СН3-	CN-⟨>OCH3	Н	Ŷ,
YA1118	СН3-	H ₃ CO >	Н	L,
YA1119	СН3-	H₃CO	Н	L,
YA1120	CH3-	OCH3	Н	Ŷ,
YA1121	СН3-	F F F	н	Î,
YA1122	СН3-	OCH₃ F—⟨; F	Н	Ŷ,
YA1123	СН3-	H₃CO-⟨∑F F	Н	Ŷ,
YA1124	СН3-	OCH ₃ F-∕{_}} OCH ₃	Н	Ŷ,
YA1125	СН3-	OCH ₃ H ₃ CO-⟨⟩-{ OCH ₃	Н	Ŷ,
YA1126	СН3-	CI—CI	Н	٨,
YA1127	СН3-	OCH ₃ CI	Н	Ĺ,

No.	R1	R2	R3	R4
YA1128	CH3-	CI H₃CO-⟨_}-{ CI	Н	l,
YA1129	СН3-	CI—()—{ OCH₃	Н	<u>L</u> ,
YA1130	СН3-	OCH ₃ H ₃ CO-{}-{ OCH ₃	н	L,
YA1131	СН3-	OCH₃	Н	Ļ,
YA1132	СН3-	H ₃ CO	Н	l,
YA1133	CH3-	H ₃ CO-{	Н	Ŷ,
YA1134	СН3-	OCH ₃ }	Н	Ŷ,

No.	R1	R2	R3	R4
YA1135		H ₃ CO	H	, R4
YA1136	СН3-	H ₃ CO-{}	Н	l,
YA1137	СН3-	OCH ₃	н	<u>گ</u>
YA1138	СН3-	H ₃ CO	Н	<u>گ</u>
YA1139	CH3-	H ₃ CO-{}	Н	Ŷ,
YA1140	СН3-	<u></u>	Н	Ŷ,
YA1141	СН3-	F	Н	Ŷ,
YA1142	СН3-	F-{\}-{\}-{}	Н	Ļ,
YA1143	СН3-	₫	Н	Ŷ,
YA1144	СН3-	F	Н	. L _y
YA1145	СН3-	F-{\}-{\}^\tag{\}	Н	Ŷ,
YA1146	СН3-	○ F	Н	Ů,
YA1147	СН3-		Н	Ŷ,
YA1148	СН3-	F-(C)-(C)	Н	Ŷ,

No.	R1	R2	R3	R4
YA1149	CH3-		Н	٨,
YA1150	CH3-	CC '	Н	Ŷ,
YA1151	СН3-		Н	l,
YA1152	СН3-	CT's	Н	Ŷ,
YA1153	СН3-	Ç	Н	Ŷ,
YA1154	CH3-	СН3-	CH3-	н
YA1155	СН3-	CH3CH2-	СН3-	Н

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No. H1 R2 R3 R4 YA1156 CH3- CH3- H YA1157 CH3- CH3- H YA1158 CH3- CH3- H YA1159 CH3- CH3- H YA1160 CH3- CH3- H YA1161 CH3- CH3- H YA1162 CH3- CH3- H YA1163 CH3- CH3- H YA1164 CH3- CH3- H YA1165 CH3- CH3- H YA1166 CH3- CH3- H YA1167 CH3- H H YA1168 CH3- CH3- H YA1169 CH3- H H YA1170 CH3- H H YA1171 CH3- CH3- H YA1172 CH3- CH3- H YA1173 CH3- CH3- H YA11	NI-	J 54			
YA1157 CH3- H YA1158 CH3- CH3- H YA1159 CH3- CH3- H YA1160 CH3- CH3- H YA1161 CH3- CH3- H YA1162 CH3- CH3- H YA1163 CH3- CH3- H YA1164 CH3- CH3- H YA1165 CH3- CH3- H YA1166 CH3- CH3- H YA1167 CH3- H H YA1168 CH3- CH3- H YA1169 CH3- H H YA1170 CH3- H H YA1171 CH3- H H YA1172 CH3- H H YA1173 CH3- H H YA1175 CH3- H H YA1175 CH3- H H	No.	R1	R2	R3	R4
YA1158 CH3- CH3- H YA1159 CH3- CH3- H YA1160 CH3- CH3- H YA1161 CH3- CH3- H YA1162 CH3- CH3- H YA1163 CH3- CH3- H YA1164 CH3- CH3- H YA1165 CH3- CH3- H YA1166 CH3- CH3- H YA1167 CH3- H H YA1168 CH3- CH3- H YA1169 CH3- CH3- H YA1170 CH3- H H YA1171 CH3- CH3- H YA1172 CH3- H H YA1173 CH3- H H YA1174 CH3- H H YA1175 CH3- H H YA1176 CH3- H H YA1175 CH3- H H	YA115	6 CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	CH3-	Н
YA1159 CH3- CH3- H YA1160 CH3- CH3- H YA1161 CH3- CH3- H YA1162 CH3- CH3- H YA1163 CH3- CH3- H YA1164 CH3- CH3- H YA1165 CH3- CH3- H YA1166 CH3- CH3- H YA1167 CH3- H H YA1168 CH3- CH3- H YA1169 CH3- CH3- H YA1170 CH3- H H YA1171 CH3- CH3- H YA1172 CH3- CH3- H YA1173 CH3- H H YA1174 CH3- H H YA1175 CH3- H H YA1176 CH3- H H	YA115	7 CH3-	Y	CH3-	Н
YA1160 CH3- CH3- H YA1161 CH3- CH3- H YA1162 CH3- CH3- H YA1163 CH3- CH3- H YA1164 CH3- CH3- H YA1165 CH3- CH3- H YA1166 CH3- CH3- H YA1167 CH3- H H YA1168 CH3- CH3- H YA1169 CH3- CH3- H YA1170 CH3- H H YA1171 CH3- CH3- H YA1172 CH3- H H YA1173 CH3- H H YA1174 CH3- H H YA1175 CH3- H H	YA1158	3 CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	CH3-	Н
YA1160 CH3- CH3- H YA1161 CH3- CH3- H YA1162 CH3- CH3- H YA1163 CH3- CH3- H YA1164 CH3- CH3- H YA1165 CH3- CH3- H YA1166 CH3- CH3- H YA1167 CH3- CH3- H YA1168 CH3- CH3- H YA1169 CH3- CH3- H YA1170 CH3- H CH3- H YA1171 CH3- CH3- H YA1172 CH3- CH3- H YA1173 CH3- H CH3- H YA1174 CH3- CH3- H YA1175 CH3- H CH3- H	YA1159	ОН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	СН3-	Н
YA1162 CH3- CH3- H YA1163 CH3- CH3- H YA1164 CH3- CH3- H YA1165 CH3- CH3- H YA1166 CH3- CH3- H YA1167 CH3- H YA1168 CH3- CH3- H YA1169 CH3- CH3- H YA1170 CH3- CH3- H YA1171 CH3- CH3- H YA1172 CH3- CH3- H YA1173 CH3- CH3- H YA1174 CH3- CH3- H YA1175 CH3- CH3- H	YA1160	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		н
YA1163 CH3- CH3- H YA1164 CH3- CH3- H YA1165 CH3- CH3- H YA1166 CH3- CH3- H YA1167 CH3- H YA1168 CH3- CH3- H YA1169 CH3- CH3- H YA1170 CH3- CH3- H YA1171 CH3- CH3- H YA1172 CH3- CH3- H YA1173 CH3- CH3- H YA1174 CH3- CH3- H YA1175 CH3- CH3- H	YA1161	СН3-	7	СН3-	Н
YA1164 CH3- CH3- H YA1165 CH3- CH3- H YA1166 CH3- CH3- H YA1167 CH3- CH3- H YA1168 CH3- CH3- H YA1169 CH3- CH3- H YA1170 CH3- CH3- H YA1171 CH3- CH3- H YA1172 CH3- H CH3- H YA1173 CH3- CH3- H YA1174 CH3- CH3- H YA1175 CH3- CH3- H	YA1162	CH3-	^ \\	CH3-	Н
YA1165 CH3-	YA1163	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	СН3-	Н
YA1166 CH3- CH3- H YA1167 CH3- H YA1168 CH3- CH3- H YA1169 CH3- CH3- H YA1170 CH3- H YA1171 CH3- CH3- H YA1172 CH3- H YA1173 CH3- CH3- H YA1174 CH3- CH3- H YA1176 CH3- CH3- H	YA1164	СН3-	Xx	СН3-	Н
YA1167 CH3-	YA1165	CH3-	7	CH3-	н
YA1168 CH3- CH3- H YA1169 CH3- CH3- H YA1170 CH3- H YA1171 CH3- CH3- H YA1172 CH3- CH3- H YA1173 CH3- CH3- H YA1174 CH3- CH3- H YA1175 CH3- CH3- H	· YA1166	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	CH3-	Н
YA1169 CH3- CH3- H YA1170 CH3- CH3- H YA1171 CH3- CH3- H YA1172 CH3- CH3- H YA1173 CH3- CH3- H YA1174 CH3- CH3- H YA1175 CH3- CH3- H	YA1167	CH3-		СН3-	Н
YA1170 CH3- CH3- H YA1171 CH3- CH3- H YA1172 CH3- CH3- H YA1173 CH3- CH3- H YA1174 CH3- CH3- H YA1175 CH3- CH3- H	YA1168	CH3-	^	СН3-	н
YA1170 CH3- H YA1171 CH3- H YA1172 CH3- H YA1173 CH3- CH3- H YA1174 CH3- H CH3- H YA1175 CH3- H CH3- H	YA1169	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	СН3-	н
YA1172 CH3- CH3- H YA1173 CH3- CH3- H YA1174 CH3- CH3- H YA1175 CH3- CH3- H	YA1170	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	CH3-	
YA1173 CH3- CH3- H YA1174 CH3- CH3- H YA1175 CH3- H	YA1171	CH3-		СН3-	Н
YA1176 CH3- CH3- H	YA1172	CH3-	Q	СН3-	Н
YA1175 CH3- CH3- H	YA1173	СН3-		СН3-	Н
VA1176 CU2	YA1174	CH3-		CH3-	. Н
YA1176 CH3- CH3- H	YA1175	CH3-	→	CH3-	Н
	YA1176	CH3-	\Diamond	CH3-	Н

No.	R1	R2	R3	R4
YA1177	CH3-	$\bigcirc \dashv$	СН3-	Н .
YA1178	СН3-	\bigcirc - \downarrow	CH3-	Н
YA1179	СН3-		CH3-	Н
YA1180	СН3-	○ -{	CH3-	Н
YA1181	СН3-		CH3-	Н
YA1182	СН3-	<u></u>	CH3-	Н
YA1183	СН3-	F A	CH3-	Н
YA1184	СН3-	F	CH3-	Н
YA1185	снз-	F-(-)	СН3-	Н
YA1186	СН3-	F-(>-\	СН3-	Н
YA1187	СН3-	F———	CH3-	Н
YA1188	CH3-	CI	СН3-	. н
YA1189	CH3-	CI{	CH3-	Н
YA1190	CH3-	c⊢∕_}-;	CH3-	Н
YA1191	CH3-	c⊢ (}-{	СН3-	Н
YA1192	СН3-	C⊢∕_>⊪{	СН3-	Н
YA1193	СН3-	Br —∤	CH3-	Н
YA1194	СН3-	Br. →	CH3-	Н
YA1195	СН3-	Br—{}	СН3-	Н
YA1196	CH3-	Br—{_}_{	CH3-	Н
YA1197	CH3-	Br—⟨∑ıı√	CH3-	н

No.	R1	R2	R3	R4
YA1198	CH3-	<u></u>	CH3-	Н
YA1199	СН3-	 	СН3-	н
YA1200	СН3-		СН3-	н
YA1201	СН3-	CH ₃	CH3-	н
YA1202	снз-	H ₃ C	CH3-	H
YA1203	CH3-	H ₃ C-{	CH3-	н
YA1204	CH3-	C ₂ H ₅ -{}-{	CH3-	Н
YA1205	СН3-	n-C ₃ H ₇ {	CH3-	Н
YA1206	СН3-	n-C ₄ H ₉ {}{	CH3-	Н
YA1207	СН3-	OH	CH3-	Н
YA1208	СН3-	HO	CH3-	Н
YA1209	CH3-	HO-{	СН3-	Н
YA1210	CH3-	OCH ₃	снз-	Н
YA1211	СН3-	H₃CO ———	СН3-	· H
YA1212	CH3-	H ₃ CO-{	СН3-	Н
YA1213	CH3-	H ₃ CO-{}	CH3-	Н
YA1214	CH3-	H ₃ CO-��\!	СН3	Н
YA1215	CH3-	OC ₂ H ₅	СН3-	Н
YA1216	СН3-	C ₂ H ₅ O	СН3-	Н
YA1217	CH3-	C ₂ H ₅ O-{}{	СН3-	Н
YA1218	CH3-	n-C ₃ H ₇ O-{}_{	СН3-	н

No.	R1	R2	R3	R4
YA1219	снз-	n-C ₄ H ₉ O-	CH3-	н
YA1220	СН3-	NO ₂	CH3-	н
YA1221	снз-	O ₂ N	СН3-	н
YA1222	снз-	02N-{}	СН3-	н
YA1223	СН3-	CN ←	СН3-	Н
YA1224	СН3-	NC →	СН3-	н
YA1225	CH3-	NC-{}	СН3-	н
YA1226	CH3-	NH ₂	СН3-	н
YA1227	CH3-	H ₂ N	СН3-	Н
YA1228	CH3-	H_2N-	СН3-	Н
YA1229	CH3-	NMe ₂	СН3-	Н
YA1230	CH3-	Me ₂ N →	СН3-	Н
YA1231	CH3-	Me ₂ N-\(\bigcirc\)\{	СН3-	Н
YA1232	. CH3-		СН3-	Н
YA1233	СН3-		СН3-	Н
YA1234	СН3-	_N-{_}-{	СН3-	Н
YA1235	CH3-		СН3-	н
YA1236	CH3-	_N-<	СН3-	Н
YA1237	CH3-		СН3-	Н
YA1238	CH3-		СН3-	Н
YA1239	CH3-		СН3-	Н

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No.	R1	R2	R3	R4
YA1240	СН3-	<u></u>	CH3-	Н
YA1241	СН3-	H ₃ CN N-	СН3-	Н
YA1242	СН3-	H ₃ CN N-	СН3-	Н
YA1243	СН3-	H3CN N-()-{	СН3-	н
YA1244	СН3-		CH3-	н
YA1245	СН3~	OCH ₃	СН3-	Н
YA1246	СН3-	OCH ₃	СН3-	Н
YA1247	CH3-		CH3-	Н
YA1248	CH3-		СН3	Н
YA1249	CH3-	CH3-	Н	CH3-
YA1250	CH3-	CH3CH2-	н	CH3-
YA1251	CH3-	∕ ∖∖	н	СН3-
YA1252	CH3-	Y	Н	СН3-
YA1253	CH3-	\\\\	Н	CH3-
YA1254	CH3-	\\\\	н	CH3-
YA1255	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	СН3~
YA1256	CH3-	*	Н	СН3-
YA1257	CH3-	^	н	СН3-
YA1258	CH3-	\	н	CH3-
YA1259	CH3-	Xx	Н	CH3-
YA1260	CH3-	→	н	CH3-

No.	. R1	R2	R3	R4
YA1261	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	CH3-
YA1262	СН3-		Н	СН3-
YA1263	СН3-	^ ✓ ` \``\``\``\``\``\``\``\``\``\``\``\``\`	н	СН3-
YA1264	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	CH3-
YA1265	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	СН3-
YA1266	CH3-	└──~	Н	CH3-
YA1267	СН3-	Q	Н	СН3-
YA1268	CH3-		Н	СН3-
YA1269	CH3-		н	СН3-
YA1270	СН3-	→ ·	н	СН3-
YA1271	CH3-	\Diamond - \downarrow	н	CH3-
YA1272	CH3-	\bigcirc - \downarrow	Н	CH3-
YA1273	CH3-		н	CH3-
YA1274	СН3-	\bigcirc -1	Н	CH3-
YA1275	СН3-	△ -∤	. н	CH3-
YA1276	CH3-		Н	CH3-
YA1277	CH3-		Н	CH3-
YA1278	CH3-		Н	CH3-
YA1279	CH3-	├ ;	Н	CH3
YA1280	CH3 .	F-{_}-	Н	СН3-
YA1281	CH3-	F-{_}-{	н	CH3-

YA1282 CH3- FQ R3 R4 YA1283 CH3- CI H CH3- YA1284 CH3- CI H CH3- YA1285 CH3- CI- H CH3- YA1286 CH3- CI- H CH3- YA1287 CH3- CI- H CH3- YA1288 CH3- BF H CH3- YA1289 CH3- BF H CH3- YA1290 CH3- BF H CH3- YA1291 CH3- BF H CH3- YA1292 CH3- BF H CH3- YA1293 CH3- H CH3- YA1294 CH3- H CH3- YA1295 CH3- H CH3- YA1296 CH3- H CH3- YA1297 CH3- H CH3- YA1298 CH3- CH3- H CH3- <th>No.</th> <th>. R1</th> <th>DO</th> <th></th> <th></th>	No.	. R1	DO		
YA1283 CH3- CI H CH3- YA1284 CH3- CI H CH3- YA1285 CH3- CH- H CH3- YA1286 CH3- CH- H CH3- YA1287 CH3- CH- H CH3- YA1288 CH3- Br H CH3- YA1289 CH3- Br H CH3- YA1290 CH3- Br H CH3- YA1291 CH3- Br H CH3- YA1291 CH3- Br H CH3- YA1292 CH3- Br H CH3- YA1293 CH3- H CH3- YA1294 CH3- H CH3- YA1295 CH3- H CH3- YA1296 CH3- H CH3- YA1297 CH3- H CH3- YA1298 CH3- C2H5- H CH3- <	110.	1	R2	R3	R4
YA1283 CH3- CH H CH3- YA1284 CH3- CH- H CH3- YA1285 CH3- CH- H CH3- YA1286 CH3- CH- H CH3- YA1287 CH3- CH3- H CH3- YA1288 CH3- Br H CH3- YA1289 CH3- Br H CH3- YA1290 CH3- Br H CH3- YA1291 CH3- Br H CH3- YA1292 CH3- Br H CH3- YA1293 CH3- H CH3- YA1294 CH3- H CH3- YA1295 CH3- H CH3- YA1296 CH3- H CH3- YA1297 CH3- H CH3- YA1298 CH3- H CH3- YA1299 CH3- C2H5- H CH3-	YA1282	CH3-		Н	CH3-
YA1285 CH3- CH	YA1283	CH3-	CI	Н	CH3-
YA1286 CH3- CH→H H CH3- YA1287 CH3- CH→H H CH3- YA1288 CH3- Br H CH3- YA1289 CH3- Br H CH3- YA1290 CH3- Br H CH3- YA1291 CH3- Br H CH3- YA1292 CH3- Br H CH3- YA1293 CH3- H CH3- YA1294 CH3- H CH3- YA1295 CH3- H CH3- YA1296 CH3- CH3- H CH3- YA1297 CH3- H CH3- YA1298 CH3- H CH3- YA1299 CH3- C ₂ H ₅ H CH3- YA1300 CH3- PC ₄ H ₉ H CH3- YA1301 CH3- OH OH CH3-	YA1284	СН3-	CI	Н	СН3-
YA1287 CH3- CH3- H CH3- YA1288 CH3- Br H CH3- YA1289 CH3- Br H CH3- YA1290 CH3- Br H CH3- YA1291 CH3- Br H CH3- YA1292 CH3- Br H CH3- YA1293 CH3- H CH3- YA1294 CH3- H CH3- YA1295 CH3- H CH3- YA1296 CH3- CH3- H CH3- YA1297 CH3- H CH3- H CH3- YA1298 CH3- H3C- H CH3- H CH3- YA1299 CH3- C2H5- H CH3- H CH3- YA1300 CH3- PC4H9- H CH3- H CH3-	YA1285	снз-	CI-{_}-{	Н	СН3-
YA1288 CH3- Br	YA1286	СН3-	CI—(Н	CH3
YA1288 CH3- H CH3- YA1289 CH3- Br H CH3- YA1290 CH3- Br H CH3- YA1291 CH3- Br H CH3- YA1292 CH3- Br H CH3- YA1293 CH3- H CH3- YA1294 CH3- H CH3- YA1295 CH3- H CH3- YA1296 CH3- CH3- H CH3- YA1297 CH3- H CH3- H CH3- YA1298 CH3- H CH3- H CH3- YA1299 CH3- C2H5- H CH3- YA1300 CH3- R-C4H9- H CH3- YA1301 CH3- CH3- OH CH3-	YA1287	СН3-		Н	CH3
YA1289 CH3- H CH3- YA1290 CH3- Br → H CH3- YA1291 CH3- Br → H CH3- YA1292 CH3- H CH3- YA1293 CH3- H CH3- YA1294 CH3- H CH3- YA1295 CH3- H CH3- YA1296 CH3- CH3- H CH3- YA1297 CH3- H CH3- YA1298 CH3- H3C- H CH3- YA1299 CH3- C2H5- H CH3- YA1300 CH3- R-C3H7- H CH3- YA1301 CH3- R-C4H9- H CH3- YA1202 CH3- CH3- CH3- H CH3-	YA1288	СН3-		Н	СН3-
YA1291 CH3- Br- H CH3- YA1292 CH3- Br- H CH3- YA1293 CH3- H CH3- YA1294 CH3- H CH3- YA1295 CH3- H CH3- YA1296 CH3- CH3- H CH3- YA1297 CH3- H CH3- H CH3- YA1298 CH3- C2H3- H CH3- H CH3- YA1299 CH3- C2H3- H CH3- H CH3- YA1300 CH3- In-C4H9- H CH3- H CH3- YA1202 CH3- OH H CH3- CH3- CH3- H CH3-	YA1289	СН3-	Br	Н	СН3-
YA1292 CH3- Br-✓ III-Ş H CH3- YA1293 CH3- H CH3- YA1294 CH3- H CH3- YA1295 CH3- H CH3- YA1296 CH3- H CH3- YA1297 CH3- H CH3- YA1298 CH3- H3C- H CH3- YA1299 CH3- C2H5- H CH3- YA1300 CH3- In-C3H7- H CH3- YA1301 CH3- In-C4H9- H CH3-	YA1290	CH3-	Br-∕_{} ·	Н	СН3-
YA1293 CH3- H CH3- YA1294 CH3- H CH3- YA1295 CH3- H CH3- YA1296 CH3- CH3- H CH3- YA1297 CH3- H CH3- YA1298 CH3- H3C- H CH3- YA1299 CH3- C2H5- H CH3- YA1300 CH3- In-C3H7- H CH3- YA1301 CH3- In-C4H9- H CH3-	YA1291	CH3-	Br—{}	н	СН3-
YA1294 CH3- H CH3- YA1295 CH3- H CH3- YA1296 CH3- H CH3- YA1297 CH3- H CH3- YA1298 CH3- H3C- H CH3- YA1299 CH3- C2H5- H CH3- YA1300 CH3- N-C3H7- H CH3- YA1301 CH3- N-C4H9- H CH3-	YA1292	CH3-	Br—	н	СН3-
YA1295 CH3- H CH3- YA1296 CH3- H CH3- YA1297 CH3- H CH3- YA1298 CH3- H3C- H CH3- YA1299 CH3- C_2H_5 - H CH3- YA1300 CH3- n - C_3H_7 - H CH3- YA1301 CH3- n - C_4H_9 - H CH3-	YA1293	снз-		Н	СН3-
YA1296 CH3- CH3- H CH3- YA1297 CH3- H CH3- YA1298 CH3- H3C- H CH3- YA1299 CH3- C_2H_5 - H CH3- YA1300 CH3- n - C_3H_7 - H CH3- YA1301 CH3- n - C_4H_9 - H CH3- YA1302 CH3- OH OH	YA1294	CH3-		Н	СН3-
YA1296 CH3- H CH3- YA1297 CH3- H CH3- YA1298 CH3- H CH3- YA1299 CH3- C_2H_5 H CH3- YA1300 CH3- C_3H_7 H CH3- YA1301 CH3- C_4H_9 H CH3- YA1302 CH3- $CH3$ - $CH3$ - $CH3$ -	YA1295	CH3-		Н	СН3-
YA1297 CH3- H CH3- YA1298 CH3- H3C- H CH3- YA1299 CH3- C_2H_5 - H CH3- YA1300 CH3- n - C_3H_7 - H CH3- YA1301 CH3- n - C_4H_9 - H CH3- YA1302 CH3- OH OH	YA1296	СН3-	⟨ ,	н	CH3-
YA1299 CH3- C_2H_5 H CH3- YA1300 CH3- r - C_3H_7 H CH3- YA1301 CH3- r - C_4H_9 H CH3-	YA1297	CH3-		н	СН3-
YA1300 CH3- n -C ₃ H ₇ - $\langle - \rangle$ H CH3- YA1301 CH3- n -C ₄ H ₉ - $\langle - \rangle$ H CH3-	YA1298	CH3-	H₃C- { }{	. н	CH3-
YA1301 CH3- N-C ₄ H ₉ - H CH3-	YA1299	CH3-	C ₂ H ₅ {}	н	CH3-
VA1202 CH3 OH	YA1300	CH3~	n-C₃H ₇ {_}	н	СН3-
VA1303 CU2 C(YA1301	СН3		Н	СН3-
1 ,	YA1302	CH3-	OH	Н	снз-

No.	R1	R2	D2	54
		HQ	R3	R4
YA1303	CH3-		Н	, снз-
YA1304	СН3-	HO-{}	н	CH3-
YA1305	СН3-	OCH ₃	Н	CH3-
YA1306	СН3-	H₃CO 	н	СН3-
YA1307	снз-	H ₃ CO-{	н	СН3-
YA1308	СН3-	H ₃ CO-{{}	Н	СН3-
YA1309	СН3-	H ₃ CO-{_}\\	н	CH3-
YA1310	СН3-	OC ₂ H ₅	н	CH3-
YA1311	СН3-	C ₂ H ₅ O —∤	н	СН3-
YA1312	CH3-	C ₂ H ₅ O-{	н	СН3-
YA1313	СН3-	n-C ₃ H ₇ O- <u>_</u> }{	Н	СН3-
YA1314	CH3-	n-C ₄ H ₉ O-	н	СН3
YA1315	CH3-	NO ₂	н	CH3-
YA1316	CH3	O ₂ N	н	СН3-
YA1317	CH3-	O ₂ N-{}	Н	CH3-
YA1318	CH3-	CN	н	CH3-
YA1319	СН3-	NC	Н	CH3-
YA1320	CH3-	NC-{}-{	н	СН3-
YA1321	CH3-	NH ₂	н	СН3-
YA1322	CH3-	H ₂ N —}	Н	СН3-
YA1323	CH3-	H ₂ N-(T)-(н	СН3-

N _a				
No.	R1	R2	R3	R4
YA132	4 снз-		Н	CH3-
YA132	5 СН3-	Me ₂ N	Н	СН3-
YA1326	6 CH3-	Me ₂ N-{	н	СН3-
YA1327	7 СН3-	CN-S	н	СН3-
YA1328	СН3-		н	CH3-
YA1329	СН3-	_N-{_}-1	Н	CH3-
YA1330	СН3-		Н	CH3
YA1331	СН3-		н	CH3-
YA1332	СН3-	_\r_\-\\	н	CH3-
YA1333	СН3-		н	СН3-
YA1334	СН3-		Н	CH3-
YA1335	CH3-	< <u></u> N-{}-;	Н	СН3-
YA1336	CH3-		Н	CH3-
YA1337	СН3-	H ₃ CN N-	Н	CH3-
YA1338	СН3-	H3CN_N-{}-{	Н	CH3-
YA1339	CH3-	OCH ₃	Н	СН3-
YA1340	СН3-	OCH ₃	. н	CH3-
YA1341	СН3-	OCH ₃	Н	CH3-
YA1342	СН3-		н	CH3-
YA1343	СН3-,	CCT'	Н	CH3-
YA1344	CH3CH2-	CH3-	н	Н

No.	R1	R2	R3	R4
YA1345	СН3СН2-	СНЗСН2-	н	Н
YA1346	СН3СН2-	∕ ∕∖	н	Н
YA1347	СН3СН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
YA1348	СН3СН2-	\ \\	Н	Н
YA1349	СН3СН2-	人、	Н	Н
YA1350	СН3СН2-	\	Н	Н
YA1351	СНЗСН2-	*	н	Н .
YA1352	СНЗСН2-	^ \\\	Н	Н
YA1353	СН3СН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
YA1354	СНЗСН2-	×x	H	Н
YA1355	CH3CH2-	\	Н	Н
YA1356	CH3CH2-	\\\\	Н	Н
YA1357	CH3CH2-		Н	Н
YA1358	CH3CH2-	~ ~~	Н	Н
YA1359	СН3СН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	H
YA1360	СН3СН2-	\\\\	н	Н
YA1361	СН3СН2-		Н	Н
YA1362	СН3СН2-		Н	Н
YA1363	СН3СН2-)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
YA1364	СН3СН2-		Н	Н
YA1365	СН3СН2-	$\triangleright \dashv$	н	н

YA1366 CH3CH2- H <t< th=""><th>No.</th><th>R1 R2</th><th></th><th></th></t<>	No.	R1 R2		
YA1367 CH3CH2- H H H YA1368 CH3CH2- H H H YA1369 CH3CH2- H H H YA1370 CH3CH2- H H H YA1371 CH3CH2- H H H YA1372 CH3CH2- H H H YA1373 CH3CH2- H H H YA1374 CH3CH2- H H H YA1375 CH3CH2- H H H YA1376 CH3CH2- H H H YA1377 CH3CH2- H H H YA1378 CH3CH2- H H H YA1380 CH3CH2- H H H YA1381 CH3CH2- H H H YA1383 CH3CH2- H H H YA1384 CH3CH2- H H H YA1385 CH3CH2- H H H		<u> </u>	R3	R4
YA1368 CH3CH2- Image: CH3CH2-	YA1366	CH3CH2-	Н	Н
YA1369 CH3CH2- H H H YA1370 CH3CH2- H H H YA1371 CH3CH2- H H H YA1372 CH3CH2- H H H YA1373 CH3CH2- H H H YA1374 CH3CH2- H H H YA1375 CH3CH2- H H H YA1376 CH3CH2- H H H YA1377 CH3CH2- H H H YA1378 CH3CH2- H H H YA1380 CH3CH2- CH H H H YA1381 CH3CH2- CH H H H YA1382 CH3CH2- CH H H H YA1384 CH3CH2- H H H H YA1384 CH3CH2- H H H H	YA1367	CH3CH2-	Н	Н
YA1370 CH3CH2- Image: CH3CH2-	YA1368	CH3CH2-	н	н
YA1371 CH3CH2- → H H H YA1372 CH3CH2- → H H H YA1373 CH3CH2- → H H H YA1374 CH3CH2- → H H H YA1375 CH3CH2- → H H H YA1376 CH3CH2- → H H H YA1377 CH3CH2- → H H H YA1378 CH3CH2- → H H H YA1380 CH3CH2- → H H H YA1381 CH3CH2- CH → H H H YA1382 CH3CH2- CH → H H H H YA1384 CH3CH2- → → H <td>YA1369</td> <td>СНЗСН2-</td> <td>Н</td> <td>н</td>	YA1369	СНЗСН2-	Н	н
YA1372 CH3CH2- Image: Annual of the property of	YA1370	СН3СН2-	Н	Н
YA1373 CH3CH2- F H H YA1374 CH3CH2- H H H YA1375 CH3CH2- H H H YA1376 CH3CH2- H H H YA1377 CH3CH2- H H H YA1378 CH3CH2- CI H H YA1379 CH3CH2- CI H H YA1380 CH3CH2- CI H H YA1381 CH3CH2- CI H H YA1382 CH3CH2- CI H H YA1383 CH3CH2- H H H YA1384 CH3CH2- H H H	YA1371	CH3CH2-	н	Н
YA1373 CH3CH2- H H H YA1374 CH3CH2- H H H YA1375 CH3CH2- H H H YA1376 CH3CH2- H H H YA1377 CH3CH2- CI H H YA1378 CH3CH2- CI H H YA1379 CH3CH2- CI H H YA1380 CH3CH2- CI H H YA1381 CH3CH2- CI H H YA1382 CH3CH2- CI H H YA1383 CH3CH2- H H H YA1384 CH3CH2- H H H	YA1372	CH3CH2-	Н	Н
YA1375 CH3CH2- F H H H YA1376 CH3CH2- F H H H YA1377 CH3CH2- F H H H YA1378 CH3CH2- CI H H H YA1379 CH3CH2- CI H H H YA1380 CH3CH2- CI H H H YA1381 CH3CH2- CI H H H YA1382 CH3CH2- CI H H H YA1383 CH3CH2- H H H H YA1384 CH3CH2- H H H H	YA1373	1	Н	Н
YA1376 CH3CH2- F III H H H YA1377 CH3CH2- F III III H H H YA1378 CH3CH2- CI H H H H YA1379 CH3CH2- CI H H H YA1380 CH3CH2- CI H H H YA1381 CH3CH2- CI III H H YA1382 CH3CH2- CI III H H YA1384 CH3CH2- II H H H YA1385 CH3CH2- II H H H	YA1374	CH3CH2-	Н	Н
YA1377 CH3CH2− CI H H YA1378 CH3CH2− CI H H YA1379 CH3CH2− CI H H YA1380 CH3CH2− CI H H YA1381 CH3CH2− CI H H YA1382 CH3CH2− CI III-3 H H YA1383 CH3CH2− BF H H H YA1384 CH3CH2− BF H H H	YA1375	снзсн2- ┡────	Н	Н
YA1378 CH3CH2- CI H H YA1379 CH3CH2- CI H H YA1380 CH3CH2- CI H H YA1381 CH3CH2- CI- H H YA1382 CH3CH2- CI- H H YA1383 CH3CH2- CI- H H YA1384 CH3CH2- H H H YA1385 CH3CH2- H H H	YA1376	CH3CH2- F	Н	Н
YA1378 CH3CH2- H H YA1379 CH3CH2- CI H H YA1380 CH3CH2- CI H H YA1381 CH3CH2- CI- H H H YA1382 CH3CH2- CI- III- H H H YA1383 CH3CH2- H H H H YA1384 CH3CH2- H H H H	YA1377	снзсн2-	Н	Н
YA1379 CH3CH2- CH- H H YA1380 CH3CH2- CH- H H H YA1381 CH3CH2- CH- H H H H YA1382 CH3CH2- CH- H H H H YA1383 CH3CH2- H H H H H YA1384 CH3CH2- H H H H H	YA1378		н	Н
YA1381 CH3CH2- CI-	YA1379		н	н
YA1382 CH3CH2- CH H H YA1383 CH3CH2-	YA1380	CH3CH2− C⊢∕	Н	Н
YA1383 CH3CH2- Br H H YA1384 CH3CH2- H H YA1385 CH3CH2- H H	YA1381	CH3CH2- CH-	Н	Н
YA1383 CH3CH2- H H YA1384 CH3CH2- H H YA1385 CH3CH2- H H	YA1382	CH3CH2- CH-⟨>ı{	Н .	Н
YA1384 CH3CH2- H H	YA1383	CH3CH2-	н	Н
YA1385 CH3CH2- Br-	YA1384	CH3CH2-	н	Н
	YA1385	снзсн ₂ Вг{	н	Н
YA1386 CH3CH2- Br	YA1386	CH3CH2-Br-	н	Н

No.	R1	R2	R3	R4
YA1387	СН3СН2-	(3)	н	н
YA1388	СН3СН2-	<u></u> ;	н	Н
YA1389	СНЗСН2-	<u></u> ;	Н	Н
YA1390	СНЗСН2-	├ ─ ◯ ─┤	Н	Н
YA1391	СНЗСН2-	CH₃ <—}_{	н	Н
YA1392	СНЗСН2-	H ₃ C	Н	Н
YA1393	СНЗСН2-	H₃C- ⟨_ }–{	Н	Н
YA1394	СНЗСН2-	C ₂ H ₅ {}{	н	Н
YA1395	СНЗСН2-	n-C ₃ H ₇ {}-{	Н	Н
YA1396	СН3СН2-		н	Н
YA1397	CH3CH2~	OH	Н	Н
YA1398	СН3СН2-	HO	н	н
YA1399	CH3CH2-		Н	н
YA1400	CH3CH2-	OCH ₃	Н	н
YA1401	CH3CH2-	H ₃ CO	н	Н
YA1402	СНЗСН2-	H ₃ CO-{}-{	Н	Н
YA1403	снзсн2-	H ₃ CO-{_}{	Н	Н
YA1404	CH3CH2-		н	Н
YA1405	СН3СН2-	OC ₂ H ₅	Н	Н
YA1406	CH3CH2-	C ₂ H ₅ O ←	Н	Н
YA1407	СНЗСН2-	C ₂ H ₅ O-{}	н	Н

No.	R1 R2	R3	R4
YA1408	0110	Н	H
YA1409	CH3CH2- n-C ₄ H ₉ O-	Н	н
YA1410	CH3CH2- NO ₂	Н	Н
YA1411	CH3CH2- O ₂ N	Н	н
YA1412	CH3CH2- O ₂ N-(Н	н
YA1413	CH3CH2-	Н	н
YA1414	CH3CH2-	Н	Н
YA1415	CH3CH2- NC-{}	н	н
YA1416	CH3CH2-	н	Н
YA1417	CH3CH2- H ₂ N	н	Н
YA1418	CH3CH2− H ₂ N-√	н	н
YA1419	CH3CH2- NMe ₂	н	н
YA1420	CH3CH2- Me ₂ N	Н	. H
YA1421	CH3CH2- Me ₂ N-	н	Н
YA1422	CH3CH2-	н	Н
YA1423	CH3CH2-	Н	Н
YA1424	CH3CH2-	Н	Н
YA1425	CH3CH2-	н	Н
YA1426	CH3CH2- N-	Н	Н
YA1427	CH3CH2-	Н	Н
YA1428	CH3CH2-	H	Н

No.	R1	R2	R3	R4
YA1429	CH3CH2-		Н	н
YA1430	СН3СН2-		Н	Н
YA1431	СН3СН2-	H₃CN_N-	Н	Н
YA1432	СН3СН2-	H₃CN_N-⟨}	Н	Н
YA1433	СН3СН2-	H3CN_N-{}-{	Н	Н
YA1434	СНЗСН2-	OCH ₃ F—⟨□⟩→	Н	Н
YA1435	СНЗСН2-		н	Н
YA1436	СНЗСН2-	OCH3 F-{\bigsym} .	Н	Н
YA1437	СН3СН2-		Н	Н
YA1438	СНЗСН2-	OCY,	Н	Н
YA1439	СН3СН2-	CH3-	Н	СН3-
YA1440	СНЗСН2-	CH3CH2-	Н	СН3-
YA1441	СНЗСН2-	^ \	Н	СН3-
YA1442	СН3СН2-	<u> </u>	Н	СН3-
YA1443	СН3СН2-	\\\\	Н	CH3-
YA1444	СН3СН2-	Li	Н	СН3-
YA1445	СН3СН2-	<u> </u>	н	CH3-
YA1446	СН3СН2-	*	Н	CH3-
YA1447	СН3СН2-	^ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	CH3-
YA1448	CH3CH2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	CH3-
YA1449	СН3СН2-	Xr	н	CH3-

No.	. R1 R2	R3	D4
YA1450		H	R4 CH3-
YA1451	CH3CH2-	Н	СН3-
YA1452	CH3CH2-	Н	СН3-
YA1453	CH3CH2-	Н	СН3-
YA1454	CH3CH2-	н	CH3-
YA1455	CH3CH2-	Н	CH3-
YA1456	CH3CH2-	н	CH3-
YA1457	CH3CH2-	н	CH3-
YA1458	CH3CH2-	Н	CH3-
YA1459	CH3CH2-	н	CH3
YA1460	CH3CH2-	н	СН3-
YA1461	снзсн2-	Н	CH3-
YA1462	CH3CH2-	н	CH3-
YA1463	CH3CH2-	н	СН3-
YA1464	CH3CH2-	н	СН3-
YA1465	CH3CH2- ()─-{	Н	СН3-
YA1466	CH3CH2-	. н	CH3-
YA1467	СН3СН2- СУп.	Н	СН3-
YA1468	CH3CH2- F	Н	СН3-
YA1469	CH3CH2-	Н	CH3-
YA1470	CH3CH2-	н	CH3-

No.	R1	R2	R3	R4
YA1471	СН3СН2-	F-(>-1	Н	CH3-
YA1472	CH3CH2-	F-_\m\	Н	CH3-
YA1473	СНЗСН2-	CI →	Н	CH3-
YA1474	СНЗСН2-	CI 	Н	CH3-
YA1475	СНЗСН2-	C⊢ <u>_</u> }-{	Н	CH3-
YA1476	СНЗСН2-	CH	н	СН3-
YA1477	СНЗСН2-	C⊢∕`⊪{	Н	CH3-
YA1478	СН3СН2-	Br	Н	CH3-
YA1479	СН3СН2-	Br. —∤	Н	CH3-
YA1480	СН3СН2-	Br—{_}_{}	н	CH3-
YA1481	СН3СН2-	Br— ⟨_ }~	н	CH3-
YA1482	СН3СН2-	Br⊸∰iיי∤	Н	·CH3-
YA1483	СН3СН2-		Н	CH3-
YA1484	СН3СН2-	<u></u>	н	. CH3
YA1485	СН3СН2-	├	н	CH3-
YA1486	СН3СН2-	CH₃ <	Н	СН3-
YA1487	СН3СН2-	H₃C —{	Н	СН3-
YA1488	СН3СН2-	H₃C- (_){	Н	CH3-
YA1489	СН3СН2-	C ₂ H ₅ —{}	Н	CH3-
YA1490	СН3СН2-	n-C ₃ H ₇ {}	Н	CH3-
YA1491	CH3CH2-	n-C ₄ H ₉ {}-{	Н	СН3~

No.	R1 R2	R3	T D4
	OH		R4
YA1492		Н	CH3-
YA1493	CH3CH2-	Н	СН3-
YA1494		н	СН3-
YA1495	<u></u>	Н	СН3-
YA1496	CH3CH2-	Н	CH3-
YA1497	СH3CH2- H ₃ CO-{{}}	Н	CH3-
YA1498	CH3CH2- H₃CO-()-{	н	СН3-
YA1499		Н	CH3-
YA1500	CH3CH2- OC ₂ H ₅	Н	СН3-
YA1501	CH3CH2- C ₂ H ₅ O	Н	СН3-
YA1502	CH3CH2- C ₂ H ₅ O-(Н	СН3-
YA1503	CH3CH2- n-C ₃ H ₇ O-(н	CH3-
YA1504	CH3CH2- n-C ₄ H ₉ O-{	Н	СН3-
YA1505	CH3CH2- NO ₂	н	CH3-
YA1506	CH3CH2- O ₂ N	Н	CH3-
YA1507	CH3CH2- O2N-(Н	СН3-
YA1508	CH3CH2− CN	н	СН3-
YA1509	CH3CH2- NC	н	СН3-
YA1510	CH3CH2- NC-(н	CH3-
YA1511	CH3CH2− NH ₂	Н	CH3-
YA1512	CH3CH2-	Н	CH3-

No.	R1	R2	R3	R4
YA1513	СНЗСН2-	H ₂ N-{\bigs_}-{\bigs_}-{\bigs_}	Н	CH3-
YA1514	СНЗСН2-	NMe ₂ →	н	CH3-
YA1515	СНЗСН2-	Me ₂ N	Н	CH3-
YA1516	СНЗСН2-	Me ₂ N-{	н	CH3-
YA1517	CH3CH2-		Н	CH3-
YA1518	СНЗСН2-		Н	CH3-
YA1519	СНЗСН2-	(N-()-1	Н	СН3-
YA1520	СНЗСН2-		Н	CH3-
YA1521	СНЗСН2-		Н	СН3-
YA1522	СНЗСН2-	_\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	СН3-
YA1523	СНЗСН2-	O_N-\	н	CH3-
YA1524	СН3СН2-		Н	CH3-
YA1525	СН3СН2-	○\+ (_) - }	Н	CH3-
YA1526	СН3СН2-	H ₃ CN N-	Н	CH3-
YA1527	СН3СН2-	H³CN_N-⟨_}	н	CH3-
YA1528	СН3СН2-	H ₃ CN_N-{_}	н	CH3-
YA1529	СН3СН2-	OCH₃ F-{}	Н	CH3-
YA1530	СН3СН2-	<u> </u>	н	CH3-
YA1531	СН3СН2~	OCH ₃	н	CH3-
YA1532	СН3СН2-		Н	CH3-
YA1533	СН3СН2-		н	СН3-

No.	STRUCTURE
YA1534	CH ₃ O N N N CH ₃ C CH ₃
YA1535	CIH CIH NN N N N O CH ₃
YA1536	CIH CIH N O CH ₃
YA1537	H ₃ C CH ₃

YA1538	
	OH CH ₃
YA1539	H ₃ C N CH ₃
YA1540	H ₃ C N CH ₃
YA1541	CI N N O CH ₃

VA4540	
YA1542	CIH N N N N O CH ₃
YA1543	CI N N CH ₃
YA1544	HCI HCI N N N CH ₃

YA1545	
	HCI N N N N N N N N N N N N N N N N N N N
YA1546	HCI HCI HCI HCI N N N CH ₃ C CH ₃
YA1547	N N O CH ₃

YA1548	HCI HCI NN NN NN O CH ₃ C
YA1549	HCI HCI HCI HCI HCI N N N N N N N N N N N N N N N N N N N
YA1550	CH ₃ HCI N N CH ₃ O CH ₃ O CH ₃

YA1551	CIH CIH N N N N N N N N N N N N N N N N N N N
YA1552	N N CH ₃
YA1553	HCI HCI N N CH ₃

YA1554	
	HCI HCI CI N CH ₃
YA1555	HCI HCI N N O CH ₃
YA1556	HCI HCI HCI NO CH ₃
YA1557	HCI HCI NN N N N O CH ₃

VALEED	
YA1558	H ₃ C S O CH ₃
YA1559	HCI HCI N N N N N CH ₃
YA1560	H ₃ C HCI HCI HCI HCI N N N CH ₃

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YA1561	
	HCI HCI N N N N N O CH ₃
YA1562	HO ····· \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
YA1563	HCI HCI N N N O CH ₃
YA1564	HCI CH ₃ HCI N N N CH ₃ CH ₃

YA1565	
YA1566	H ₃ C N N N N O CH ₃
YA1567	HO N N N N N CH ₃
YA1568	N N N CH ₃

YA1569	T
	HO—NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
YA1570	H ₃ C N N N O CH ₃
YA1571	H ₃ C N N N O CH ₃
YA1572	H ₃ C S N N N CH ₃

YA1573	N N N O CH ₃
YA1574	F F F N N N N N N CH ₃
YA1575	F N N N CH ₃

VA4570	
YA1576	H ₃ C N N N N CH ₃
YA1577	N N CH ₃
YA1578	CH ₃ CH ₃ O N N O CH ₃

YA1579	
	CH ₃ O CH ₃
YA1580	CI N N N CH ₃
YA1581	CI CI CH ₃
YA1582	CI N N N CH ₃

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YA1583	
	N CH ₃
YA1584	H ₃ C O N N N O CH ₃
YA1585	H ₃ C O O O O O O O O O O O O O O O O O O O
YA1586	CH ₃

YA1587	
·	H ₃ C N N N O CH ₃
YA1588	H ₃ C N N N O CH ₃
YA1589	H ₂ N N N O CH ₃
YA1590	Br N O CH ₃

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Table-4

No. R1 R2 R3 R4 R5 YB1 CH3- CH3- H H H YB2 CH3- CH3- H H H YB4 CH3- H H H YB5 CH3- H H H YB6 CH3- H H H YB7 CH3- H H H YB8 CH3- H H H YB9 CH3- H H H YB10 CH3- H H H YB11 CH3- H H H YB12 CH3- H H H YB13 CH3- CH3- H H H YB14 CH3- CH3- H H H YB15 CH3- H H H H YB16 CH3- H H H H YB17 CH3- H H H H YB18 CH3- H H H H YB19 CH3- H H H H YB19	lable-4							
YB1 CH3- CH3- H		$\begin{array}{c} R_{3} \\ R_{4} \\ R_{5} \end{array}$						
YB1 CH3- CH3- H	No.	R1	R2	IR3	R4	R5		
YB3 CH3- H H H H YB4 CH3- H H H H YB5 CH3- H H H H YB6 CH3- H H H H YB7 CH3- H H H H YB8 CH3- H H H H YB10 CH3- H H H H YB11 CH3- H H H H YB12 CH3- H H H H YB13 CH3- CH3- H H H YB14 CH3- CH3- H H H H	YB1	СН3-						
YB4 CH3- H <td>YB2</td> <td>СН3-</td> <td>СН3СН2-</td> <td>Н</td> <td>Н</td> <td>Н</td>	YB2	СН3-	СН3СН2-	Н	Н	Н		
YB5 CH3- H H H H YB6 CH3- H H H H YB7 CH3- H H H H YB8 CH3- H H H H YB9 CH3- H H H H YB10 CH3- H H H H YB11 CH3- H H H H YB13 CH3- CH3- H H H H YB14 CH3- CH3- H H H H	YB3	СН3-	^ \	Н	н	Н		
YB6 CH3- H H H YB7 CH3- H H H YB8 CH3- H H H YB9 CH3- H H H YB10 CH3- H H H YB11 CH3- H H H YB12 CH3- H H H YB13 CH3- H H H YB14 CH3- H H H	YB4	СН3-	7	Н	н	Н		
YB7 CH3- H H H H YB8 CH3- H H H H YB9 CH3- H H H H YB10 CH3- H H H H YB11 CH3- H H H H YB12 CH3- H H H H YB13 CH3- CH3- H H H YB14 CH3- CH3- H H H	YB5	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	Н		
YB8 CH3- H H H H YB9 CH3- H H H H YB10 CH3- H H H H YB11 CH3- H H H H YB12 CH3- H H H H YB13 CH3- H H H H YB14 CH3- H H H H	YB6	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н	Н		
YB9 CH3- H H H H YB10 CH3- H H H H YB11 CH3- H H H H YB12 CH3- H H H H YB13 CH3- CH3- H H H H YB14 CH3- CH3- H H H H	YB7	СН3-	7	Н	Н	Н		
YB10 CH3- H H H H YB11 CH3- H H H H YB12 CH3- H H H H YB13 CH3- CH3- H H H H YB14 CH3- CH3- H H H H	YB8	СН3-	^ \	Н	Н	Н		
YB11 CH3- H H H H YB12 CH3- H H H H YB13 CH3- H H H H YB14 CH3- CH3- H H H	YB9	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н	Н		
YB12 CH3- H H H YB13 CH3- H H H YB14 CH3- H H H	YB10	CH3-	\\\\	Н	Н	Н		
YB13 CH3- H H H YB14 CH3- H H H	YB11	СН3-	^	Н	н	Н		
YB14 CH3- H H	YB12	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н	Н		
VP45 Que	YB13	СН3-	Q _o	Н	Н	Н		
YB15 CH3- H H	YB14	СН3-	Cor	Н	Н	Н		
	YB15	СН3-	Q	Н	Н	Н		

No.	. R1	R2	R3	R4	R5
YB16	СН3-		Н	Н	Н
YB17	СН3-	Q	Н	н	н
YB18	CH3-	◯ ∤	Н	Н	Н
YB19	СН3-	F-{	н	н	Н
YB20	СН3-	F	Н	Н	Н
YB21	СН3-	F-{}-{	Н	Н	Н
YB22	СН3-	CI	Н	Н	н
YB23	СН3-	CI ——	Н	Н	н
YB24	СН3-	C⊢{_}-{	Н	Н	Н
YB25	СН3-	Br	Н	н	н
YB26	СН3-	Br	Н	н	н
YB27	СН3-	Br—{	Н	н	н
YB28	СН3-	CH ₃	Н	н	н
YB29	СН3-	H ₃ C	Н	Н	н
YB30	СН3-	H ₃ C-{}-{	н	Н	Н
YB31	СН3-	C ₂ H ₅ —{	Н	Н	н
YB32	СН3-	OH	Н	Н	н
YB33	CH3-	HO →	Н	,	Н

No.	R1	R2	R3	R4	Inc
		HO-{-}		184	R5
YB34	CH3-		н	Н	н
VDOE	0110	OCH ₃	_		
YB35	CH3-	 {	H	Н	Н
YB36	СН3-	H ₃ CO			
1200	0110		H	H	H
YB37	СН3-	H ₃ CO-{}_{{}}_{{}}	Н	Н	
				П	H
YB38	СН3-	C_2H_5O-	Н	Н	
		NO	_ ''		H
YB39	СН3-	NO ₂	Н	Н	Н
	 	O-N			
YB40	СН3-	O ₂ N	н	н	н
YB41	СН3-	$O_2N-\langle _ \rangle - \langle$	н	Н	н
	 	CN			
YB42	СН3-		Н	Н	н
	-	NC.			
YB43	СН3-		Н	Н	н
\/D 4.4		NC-{>-{	+		
YB44	СН3-		H	Н	н
VD45	0110	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
YB45	CH3-		Н	H	[н
YB46	СН3-				
1540	CH3-		Н	Н	H
YB47	СН3-	~~¹	1		
	0113		Н	Н	. Н
YB48	СН3-	~ \\ \tag{\tau}			
	0110	ON	Η .	Н	Н
YB49	CH3-	- Jan 12	u		
		- CON	Н	Н	Н
YB50	CH3-		Н	Н	
		O.N	<u> </u> ''		H
YB51	CH3-	- The	н	Н	
		J ON			Н

No.	R1	R2	R3	R4	R5
YB52	СН3-		ОН	н .	Н
YB53	снз-	F	ОН	н	Н
YB54	снз-	F	ОН	Н	Н
YB55	снз-	F-{}-{	ОН	Н	Н
YB56	СН3-	CI	ОН	н	н
YB57	СН3-	CI	ОН	Н	Н
YB58	СН3-	CH{\}	ОН	Н	н
YB59	СН3-	Br ✓—;	ОН .	н	Н
YB60	СН3-	Br.	он	Н	Н
YB61	СН3-	Br—{	он	Н	Н
YB62	снз-	CH ₃	он	Н	н
YB63	СН3-	H ₃ C	ОН	Н	Н
YB64	СН3-	H ₃ C-{{}}	ОН	Н	H
YB65	СН3-	C ₂ H ₅ -{	ОН	Н	Н
YB66	СН3-	OH	он	Н	н
YB67	СН3-	HO →	он	Н	Н
YB68	СН3-	HO-{\bigcirc}-{	он	Н	Н
YB69	СН3-	OCH ₃	он	Н	Н

No.	R1	R2	R3	R4	R5
		H ₃ CQ	11/0	114	
YB70	СН3-		ОН	Н	н
YB71	СН3-	H ₃ CO-{}	ОН	Н	Н
YB72	СН3-	C ₂ H ₅ O-{}	ОН	Н	Н
YB73	СН3-	NO ₂	ОН	Н	Н
YB74	СН3-	O ₂ N	он	н	н
YB75	СН3-	02N-{	он	Н	н
YB76	СН3-	CN ←	он	н	н
YB77	СН3-	NC	он	Н	н
YB78	СН3-	NC-{}-{	ОН	Н	н
YB79	СН3-	Choo	он	Н	н
YB80	СН3∸		ОН	н	н
YB81	СН3	CCC'r	ОН	Н	н
YB82	СН3-		CN	Н	Н
YB83	СН3-	F	CN	Н	Н
YB84	СН3-	F	CN	Н	н
YB85	СН3-	F-(CN	Н	Н
YB86	СН3-	CI →	CN	Н	н
YB87	СН3-	CI;	CN	Н	н

No.	R1	R2	R3	R4	R5
YB88	СН3-	C├ -	CN	Н	H
YB89	СН3-	Br S	CN	Н	н
YB90	СН3-	Br.	СИ	Н	Н
YB91	СН3-	Br—{	CN	Н	Н
YB92	СН3-	CH ₃	CN	Н	Н
YB93	СН3-	H ₃ C	CN	Н	н
YB94	СН3-	H ₃ C-{{{}}	CN	н	Н
YB95	СН3-	C ₂ H ₅ {	CN	Н	Н
YB96	CH3-	OH →	CN	Н	н
YB97	СН3-	HO	CN ·	Н	н
YB98	СН3-	HO-{_}-}	CN	Н	Н
YB99	CH3-	OCH ₃	CN	Н	Н
YB100	СН3-	H ₃ CO ←	CN	H	Н
YB101	СН3-	H₃CO-⟨}-{	CN	Н	Н
YB102	CH3-	C ₂ H ₅ O-{	CN	н	Н
YB103	СН3-	NO ₂	CN	Н	н
YB104	CH3-	O ₂ N	CN	Н	Н
YB105	CH3-	O ₂ N-{	CN	Н	Н

No.	R1	R2	R3	R4	R5
YB106	6 СН3-	CN	CN	н .	Н
YB107	CH3-	NC	CN	н	Н
YB108	СН3~	NC-{}	GN	Н	H
YB109	СН3-	ChO	CN	Н	Н
YB110	СН3-		СИ	Н	Н
YB111	СН3-	CCC '	CN	Н	Н
YB112	СН3-	н	Н	СН3-	Н
YB113	СН3-	Н	Н	CH3CH2-	Н
YB114	СН3-	Н	Н	∕ ∕∖\	Н
YB115	СН3-	Н	Н	74	н
YB116	СН3-	Н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н
YB117	СН3-	н	Н	人工	Н
YB118	СН3-	н	Н	X,r	Н
YB119	СН3-	Н	Н	^ \\	н
YB120	СН3-	Н	Н.	1	Н
YB121	СН3-	Н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н
YB122	СН3-	Н	Н	~~~	کر H
YB123	СН3-	Н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	H

No.	R1	R2	IDO	ID4	~ ~
110.	100		R3	R4	R5
YB124	CH3-	Н	Н		н
YB125	снз-	Н	Н		Н
YB126	CH3-	н	н		Н
YB127	СН3-	Н	н		Н
YB128	СН3-	Н	Н	F	Н
YB129	СН3-	Н	Н	F	Н
YB130	СН3-	Н	Н	F-{_}	Н
YB131	СН3-	Н	н	CI	Н
YB132	СН3-	Н	Н	CI →	Н
YB133	СН3-	н	Н	C⊢ (_)~{	Н
YB134	СН3-	Н	Н	CI————————————————————————————————————	н
YB135	снз-	Н	Н	Br	Н
YB136	CH3-	н	Н	Br.	Н
YB137	СН3-	Н	Н	Br—{	н
YB138	СН3-	н	н	CH₃	н
YB139	СН3-	Н	Н	H ₃ C	н
YB140	СН3-	Н	Н	H ₃ C-{	Н
YB141	СН3-	Н	Н	C ₂ H ₅ {}{	Н

No.	R1	R2	IDO	154	
1.0.		11/2	R3	R4	R5
YB142	СН3-	Н	н	OH →	н
YB143	СН3-	Н	Н	HO	Н
YB144	СН3-	Н	Н	HO-{\bar{\bar{\bar{\bar{\bar{\bar{\bar	Н
YB145	СН3-	Н	Н	OCH₃	Н
YB146	СН3-	Н	Н	H ₃ CO	Н
YB147	СН3-	Н	Н	H ₃ CO-{	Н
YB148	СН3-	Н	Н	C ₂ H ₅ O-{	н
YB149	СН3-	Н	н	NO ₂	Н
YB150	СН3-	Н	. Н	O ₂ N	Н
YB151	СН3-	Н	Н	O ₂ N-{{{1}}	Н
YB152	СН3-	Н	Н	CN	Н
YB153	СН3-	Н	Н	NC	Н
YB154	СН3-	Н	Н	NC-{	Н
YB155	СН3-	Н	Н		Н
YB156	СН3-	Н	Н		Н
YB157	СН3-	Н	н	F	Н
YB158	СН3-	н	Н	H ₃ C	Н
YB159	СН3-	Н	Н	F S	Н

No.	R1	R2	R3	R4	R5
YB160	СН3-	Н	Н	FON	Н
YB161	СН3-	Н	Н	F N	Н
YB162	СН3-	Н	Н		н
YB163	СН3-	Н	Н	N S	Н
YB164	СН3-	Н	Н	◯ →	ОН
YB165	СН3-	Н	н	F	ОН
YB166	СН3-	Н	н	F;	он
YB167	СН3-	Н	Н	F-{}-{	он
YB168	СН3-	Н	н	CI	ОН
YB169	СН3-	Н	Н	CI	ОН
YB170	СН3-	н	Н	CI—{_}_{}	ОН
YB171	СН3-	Н	Н .	Br	он
YB172	CH3-	н	Н	Br{	он
YB173	CH3-	Н	Н	Br—{	он
YB174	СН3-	Н	Н	CH ₃	он
YB175	СН3-	н	Н	H ₃ C	он
YB176	СН3-	Н	Н	H ₃ C-{_}{	ОН
YB177	СН3-	Н	Н	C ₂ H ₅ -{{{5}}-{{5}}}-{{5}}	ОН

No.	R1	R2	R3	R4	R5
YB178	СН3-	Н	Н	OH OH	ОН
YB179	CH3-	Н	Н	HO —	ОН
YB180	СН3-	Н	Н	HO-{}	он
YB181	СН3-	Н	Н	OCH ₃	ОН
YB182	СН3-	н	Н	H ₃ CO	он
YB183	CH3-	н	Н	H ₃ CO-{{}	ОН
YB184	CH3-	Н	Н	C ₂ H ₅ O-{	ОН
YB185	СН3-	Н	н	NO ₂	ОН
YB186	СН3-	Н	н	O ₂ N	он
YB187	СН3-	Н	н	O ₂ N-{}	он
YB188	СН3-	Н	Н	CN	он
YB189	СН3-	Н	Н	NC	ОН
YB190	СН3-	Н	Н	NC-{}	ОН
YB191	СН3-	Н	Н		ОН
YB192	CH3-	Н	Н	CC '	ОН
YB193	CH3-	н	Н		CN
YB194	СН3-	Н	Н	F 	CN
YB195	СН3-	Н	Н	F	CN

No.	R1	R2	R3	R4	Tee-
	 		110	114	R5
YB196	СН3-	Н	Н	F-()-{	CN
YB197	СН3-	Н	Н	CI	CN
YB198	снз-	Н	н	CI	СИ
YB199	СН3-	Н	Н	CH	CN
YB200	CH3-	Н	Н	Br	CN
YB201	СН3-	Н	Н	Br. →	CN
YB202	СН3-	Н	Н	Br────₹	CN
YB203	СН3-	Н	Н	CH ₃	GN
YB204	СН3-	н	Н	H ₃ C	CN
YB205	CH3-	Н	Н	H ₃ C-{{}	CN
YB206	СН3-	Н	Н	C ₂ H ₅ -{_}-{	CN
YB207	СН3-	Н	Н	OH	CN
YB208	СН3-	Н	Н	HO	CN
YB209	снз-	Н	Н .	HO-{}	CN
YB210	СН3-	Н	Н .	OCH₃ <a>	CN
YB211	СН3-	Н	Н	H ₃ CO	GN
YB212	СН3-	Н	Н	H₃CO - {}_{{}}	CN
YB213	СН3-	Н	Н	C ₂ H ₅ O-{	CN

No.	R1	R2	R3	R4	The The
YB214		Н	H	NO ₂	R5
				<u>⟨_</u> }-{ O ₂ N	CN
YB215	CH3-	Н	Н		CN
YB216	СН3-	Н	Н	O_2 N $-$ {	GM
YB217	СН3-	Н	Н	CN CN	CN
YB218	СН3-	Н	н	NC	CN
YB219	СН3-	Н	н	NC-{}	CN
YB220	СН3-	Н	н		CN
YB221	СН3-	Н	Н	CC '	CN
YB222	СН3-	Н	Н		0
YB223	СН3-	Н	Н	F	0
YB224	СН3-	Н	Н	F	0
YB225	СН3-	Н	Н	F—{}	0
YB226	СН3-	Н	н	CI	0
YB227	СН3-	Н	Н	CI →	0
YB228	СН3-	Н	Н	C-{_}-{	0
YB229	СН3-	н	Н	Br	0
YB230	СН3-	Н	Н	Br	0
YB231	СН3-	Н	Н	Br─∰	0

No.	R1	R2	R3	R4	- Inc
YB232		Н	Н	CH ₃	R5
YB233	СН3-	н	н	H ₃ C	
YB234	СН3-	Н	н	H ₃ C-()(0
YB235	СН3-	Н	н	C ₂ H ₅ —{	
YB236	СН3-	Н	н	OH OH	0
YB237	СН3-	Н	н	HO →	0
YB238	СН3-	Н	Н	HO-{}-{	<u></u>
YB239	СН3-	Н	Н	OCH₃	0
YB240	СН3-	Н	Н	H ₃ CO	<u></u>
YB241	СН3-	Н	Н	H ₃ CO-{}	٠ ا
YB242	СН3-	Н	Н	C ₂ H ₅ O-{	0
YB243	снз-	н	Н	NO ₂	0
YB244	СН3-	Н	Н	O ₂ N	0
YB245	СН3-	Н	Н	O ₂ N-{_}{	0
YB246	СН3-	н	н	CN	<u></u>
YB247	СН3-	Н	н	NC	0
YB248	СН3-	н	Н	NC-{}	0
YB249	СН3-	Н	Н		0
	<u> </u>				

No.	R1	R2	R3	R4	R5
YB250	СН3-	Н	Н	CCC ¹	0

No.	STRUCTURE
YB251	N CH ₃
YB252	CH ₃
YB253	N N CH ₃
YB254	N N N N O CH ₃

YB255	
	N N N N CH ₃
YB256	N N O
YB257	CH₃
	N N O CH ₃
YB258	Br CH ₃

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YB259	
	N CH ₃
YB260	
	N CH ₃
YB261	N N N N N N N N N N N N N N N N N N N
·	CH ₃ N N O CH ₃
YB262	
	CH ₃ N N CH ₃

YB263	
	CH ₃ O O CH ₃ O CH ₃
YB264	CH ₃ N CH ₃
YB265	Br N N O CH ₃
YB266	HO N N N N N N N N N N N N N N N N N N N

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YB267 YB268	CH ₃ CH ₃ CH ₃ CH ₃ O CH ₃
	N N O CH ₃
YB269	N N O CH ₃
YB270	H ₃ C N N N O CH ₃
YB271	H ₃ C N N N N N N O CH ₃

YB272	
•	N N N N N N CH ₃
YB273	H ₃ C N
YB274	HO CH ₃
YB275	N N N O CH ₃

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YB276	N N N N N N N N N N N N N N N N N N N
YB277	N N N O CH ₃
YB278	CH ₃ CH ₃ O CH ₃

Particularly preferred compounds of the present invention represented by formula (I) include:

2-(3-Phenylpiperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
2-(3-(4-Fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
2-(3-(3-Fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
2-(3-(2-Fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
2-(3-(4-Chlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
(S)-2-(3-(4-Chlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;

(R)-2-(3-(4-Chlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;

2-(3-(3-Chlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(2-Chlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(4-Bromophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(3-Bromophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;2-(3-(2-Bromophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;2-(3-(4-Methylphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(3-Methylphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(2-Methylphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(4-Cyanophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;2-(3-(3-Cyanophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(2-Cyanophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(4-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(3-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(2-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(2-Ethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(5-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3Hpyrimidin-4-one;

2-(3-(4-Fluoro-3-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;

- 2-(3-(4-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- (S)-2-(3-(4-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- (R)-2-(3-(4-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(4-Chloro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- 2-(3-(4-Fluoro-2-methylphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- 2-(3-(2-Fluoro-6-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- 2-(3-(5-Bromo-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimid in-4-one;
- 2-(3-(2-Bromo-4-fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- 2-(3-(2-Chloro-6-fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- 2-(3-(2,4-Difluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- 2-(3-(2,6-Difluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- 2-(3-(2,6-Dichlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- 2-(3-(2,4-Dimethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;

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2\hbox{-}(3\hbox{-}(3\hbox{-}4\hbox{-}Dimethoxyphenyl) piperazin-1-yl)-3-methyl-6\hbox{-}(4\hbox{-}pyridyl)-3\emph{H-}pyrimidin-4-one;}
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- $2\hbox{-}(3\hbox{-}(2,5\hbox{-Dimethoxyphenyl}) piperazin-1-yl)-3\hbox{-methyl-}6\hbox{-}(4\hbox{-pyridyl})-3H\hbox{-pyrimidin-}4\hbox{-one};$
- 2-(3-(2,6-Dimethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(2,4-Difluoro-6-methoxyphenyl) piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- $2\hbox{-}(3\hbox{-}(5\hbox{-}{\rm Cyano-2-methoxyphenyl}) piperazin-1\hbox{--yl})\hbox{-}3\hbox{--methyl-}6\hbox{-}(4\hbox{--pyridyl})\hbox{-}3H-pyrimidin-}4\hbox{-}one;$
- 2-(3-(4-Cyano-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(1-Naphthyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- $\hbox{2-(3-(2-Naphthyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3$$H$-pyrimidin-4-one;}$
- $2\text{-}(3\text{-}(2,3\text{-}Dihydrobenzofuran-7-yl)piperazin-1-yl)-3-methyl-6-(4\text{-}pyridyl)-3} \\ Hermitian + 2\text{-}(3\text{-}(2,3\text{-}Dihydrobenzofuran-7-yl)piperazin-1-yl)-3-methyl-6-(4\text{-}pyridyl)-3} \\ Hermitian + 2\text{-}(3\text{-}(2,3\text{-}Dihydrobenzofuran-7-yl)piperazin-1-yl)-3-methyl-6-(4\text{-}pyridyl)-3} \\ Hermitian + 2\text{-}(3\text{-}(2,3\text{-}Dihydrobenzofuran-7-yl)piperazin-1-yl)-3-methyl-6-(4\text{-}pyridyl)-3} \\ Hermitian + 2\text{-}(3$
- $2-(3-(Benzofuran-2-yl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;\\ (S)-2-(3-(Benzofuran-2-yl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;\\ one;$
- $2\text{-}(3\text{-}(4\text{-}(\text{Pyrrolidin-1-yl-methyl})\text{phenyl})\text{piperazin-1-yl})-3\text{-}methyl-6\text{-}(4\text{-}pyridyl)-3} \\ H-pyrimidin-4\text{-}one;$
- 2-(3-(4-(Pyrrolidin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- $2\hbox{-}(3\hbox{-}(2\hbox{-methoxy-}4\hbox{-}(pyrrolidin-1\hbox{-}yl)phenyl)piperazin-1\hbox{-}yl)\hbox{-}3\hbox{-methyl-}6\hbox{-}(4\hbox{-pyridyl})\hbox{-}3H\hbox{-pyrimidin-}4\hbox{-}one;$
- $2\hbox{-}(3\hbox{-}(2\hbox{-methoxy-5-(pyrrolidin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4\hbox{-pyridyl})-3-$
- 2-(3-(4-(Phenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;

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2-(3-(4-(4-Fluorophenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-
 pyrimidin-4-one;
 2-(3-(4-(4-Methoxyphenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-
 pyrimidin-4-one;
 2-(3-(4-(2-Methoxyphenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-
 pyrimidin-4-one;
 pyrimidin-4-one;
2\hbox{-}(3\hbox{-}(4\hbox{-}(4\hbox{-}Methylpiperazin-1-yl)phenyl)piperazin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyridyl)-3H-2-(4\hbox{-}(4\hbox{-}Methylpiperazin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4\hbox{-}pyridyl)-3H-2-(4\hbox{-}(4\hbox{-}Methylpiperazin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4\hbox{-}pyridyl)-3H-2-(4\hbox{-}(4\hbox{-}Methylpiperazin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4\hbox{-}pyridyl)-3H-2-(4\hbox{-}(4\hbox{-}Methylpiperazin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4\hbox{-}pyridyl)-3H-2-(4\hbox{-}(4\hbox{-}Methylpiperazin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4\hbox{-}pyridyl)-3H-2-(4\hbox{-}(4\hbox{-}Methylpiperazin-1-yl)-3-methyl-6-(4\hbox{-}pyridyl)-3H-2-(4\hbox{-}(4\hbox{-}Methylpiperazin-1-yl)-3-methyl-6-(4\hbox{-}pyridyl)-3H-2-(4\hbox{-}(4\hbox{-}Methylpiperazin-1-yl)-3-methyl-6-(4\hbox{-}pyridyl)-3H-2-(4\hbox{-}(4\hbox{-}Methylpiperazin-1-yl)-3-methyl-6-(4\hbox{-}pyridyl)-3H-2-(4\hbox{-}(4\hbox{-}Methylpiperazin-1-yl)-3-methyl-6-(4\hbox{-}pyridyl)-3H-2-(4\hbox{-}(4\hbox{-}Methylpiperazin-1-yl)-3-methyl-6-(4\hbox{-}pyridyl)-3H-2-(4\hbox{-}(4\hbox{-}Methylpiperazin-1-yl)-3-methyl-6-(4\hbox{-}pyridyl)-3H-2-(4\hbox{-}Methylpiperazin-1-yl)-3-methyl-6-(4\hbox{-}pyridyl)-3H-2-(4\hbox{-}Methylpiperazin-1-yl)-3-methyl-6-(4\hbox{-}pyridyl)-3H-2-(4\hbox{-}Methylpiperazin-1-yl)-3-methyl-6-(4\hbox{-}pyridyl)-3H-2-(4\hbox{-}Methylpiperazin-1-yl)-3-methyl-6-(4\hbox{-}pyridyl)-3H-2-(4\hbox{-}Methylpiperazin-1-yl)-3-methyl-6-(4\hbox{-}pyridyl)-3H-2-(4\hbox{-}Methylpiperazin-1-yl)-3-methyl-6-(4\hbox{-}pyridyl)-3H-2-(4\hbox{-}Methylpiperazin-1-yl)-3-(4\hbox{-}Methylpiperazin-1-yl)-3-(4\hbox{-}Methylpiperazin-1-yl)-3-(4\hbox{-}Methylpiperazin-1-yl)-3-(4\hbox{-}Methylpiperazin-1-yl)-3-(4\hbox{-}Methylpiperazin-1-yl)-3-(4\hbox{-}Methylpiperazin-1-yl)-3-(4\hbox{-}Methylpiperazin-1-yl)-3-(4\hbox{-}Methylpiperazin-1-yl)-3-(4\hbox{-}Methylpiperazin-1-yl)-3-(4\hbox{-}Methylpiperazin-1-yl)-3-(4\hbox{-}Methylpiperazin-1-yl)-3-(4\hbox{-}Methylpiperazin-1-yl)-3-(4\hbox{-}Methylpiperazin-1-yl)-3-(4\hbox{-}Methylpiperazin-1-yl)-3-(4\hbox{-}Methylpiperazin-1-yl)-3-(4\hbox{-}Methylpiperazin-1-yl)-3-(4\hbox{-}Methylpiperazin-1-yl)-3-(4\hbox{-}Methylpiperazin-1-yl)-3-(4\hbox{-}Methylpiperazin-1-yl)-3-(4\hbox{-}Methylpiperazin-1-yl)-3-(4\hbox{-}Methylpiperazin-1-yl)-3-(4\hbox{-}Methylpiperazin-1-yl)-3-(4\hbox{-}
 pyrimidin-4-one;
 2-(4-Phenylpiperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
 2-(4-Benzylpiperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
 2-(4-Benzoylpiperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
 2-(4-(1,2-Benzisothiazol-3-yl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-
 pyrimidin-4-one;
 2-(4-Methyl-3-phenylpiperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
2-(3-(4-Fluoro-2-methoxyphenyl)-4-methylpiperazin-1-yl)-3-methyl-6-(4-pyridyl)-
 3H-pyrimidin-4-one;
(S)-2-(3-(4-Fluoro-2-methoxyphenyl)-4-methylpiperazin-1-yl)-3-methyl-6-(4-
pyridyl)-3H-pyrimidin-4-one;
(R)-2-(3-(4-Fluoro-2-methoxyphenyl)-4-methylpiperazin-1-yl)-3-methyl-6-(4-
pyridyl)-3H-pyrimidin-4-one;
2-(4-Acetyl-3-(4-fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-
3H-pyrimidin-4-one;
2-(4-Benzyl-3-(4-fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-
3H-pyrimidin-4-one;
2-(4-Benzyl-3-(ethoxycarbonyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-
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pyrimidin-4-one;

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2\hbox{-}(4\hbox{-methyl-3-}(1\hbox{-naphthyl}) piperazin-1\hbox{-yl})-3\hbox{-methyl-6-}(4\hbox{-pyridyl})-3H\hbox{-pyrimidin-4-one};
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- $2\hbox{-}(5,5\hbox{-Dimethyl-3-}(2\hbox{-methoxyphenyl}) piperazin-1-yl)-3\hbox{-methyl-6-}(4\hbox{-pyridyl})-3H-pyrimidin-4-one;$
- 2-(3-Phenylpiperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- $2\hbox{-}(3\hbox{-}(4\hbox{-}Fluorophenyl)piperidin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyridyl)-3$$H$-pyrimidin-4-one;$
- 2-(3-(3-Fluorophenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- $2\hbox{-}(3\hbox{-}(2\hbox{-}Fluorophenyl) piperidin-1-yl)-3-methyl-6\hbox{-}(4\hbox{-}pyridyl)-3\textit{H-}pyrimidin-4-one;}$
- $2\hbox{-}(3\hbox{-}(4\hbox{-}Chlorophenyl)piperidin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyridyl)-3$$H$-pyrimidin-4-one;$
- 2-(3-(4-Bromophenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- $2\hbox{-}(3\hbox{-}(4\hbox{-Methoxyphenyl}) piperidin-1\hbox{-}yl)-3\hbox{-methyl-}6\hbox{-}(4\hbox{-pyridyl})-3H\hbox{-pyrimidin-}4\hbox{-one};$
- $2\hbox{-}(3\hbox{-}(3\hbox{-}Methoxyphenyl) piperidin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyridyl)-3\emph{H-}pyrimidin-4\hbox{-}one;$
- $2\hbox{-}(3\hbox{-}(2\hbox{-}Methoxyphenyl)piperidin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyridyl)-3H\hbox{-}pyrimidin-4\hbox{-}one;$
- 2-(3-(4-((Pyrrolidin-1-yl)methyl)phenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one:
- /CD 0 /0 // /D
- (S)-2-(3-(4-(Pyrrolidin-1-yl-methyl)phenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- (R) 2 (3 (4 (Pyrrolidin 1 yl methyl) phenyl) piperidin 1 yl) 3 methyl 6 (4 pyridyl) 3 H pyrimidin 4 one;
- 2-(3-Hydroxy-3-phenylpiperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- $2\hbox{-}(3\hbox{-Phenylpiperazin-1-yl})\hbox{-}3\hbox{-methyl-6-}(4\hbox{-pyrimidyl})\hbox{-}3H\hbox{-pyrimidin-4-one};$
- 2-(3-(4-Fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- $2\hbox{-}(3\hbox{-}(3\hbox{-}Fluorophenyl) piperazin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyrimidyl)-3$$H$-pyrimidin-4-one;$
- $2\hbox{-}(3\hbox{-}(2\hbox{-}Fluorophenyl) piperazin-1\hbox{-}yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyrimidyl)-3\emph{\textit{H}}\hbox{-}pyrimidin-4\hbox{-}one;$
- 2-(3-(4-Chlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- $2\hbox{-}(3\hbox{-}(3\hbox{-}Chlorophenyl)piperazin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyrimidyl)-3$$H$-pyrimidin-4-one;$

- $2\hbox{-}(3\hbox{-}(2\hbox{-}Chlorophenyl) piperazin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyrimidyl)-3$$H$-pyrimidin-4-one; \\$
- 2-(3-(4-Bromophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(3-Bromophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(2-Bromophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(4-Cyanophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(3-(3-Cyanophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(3-(2-Cyanophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(3-(4-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(3-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(3-(2-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(2-Ethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(6-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(3-(5-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(4-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;

(S)-2-(3-(4-Fluoro-2-methoxyphenyl) piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;

- $(R) \hbox{-} 2 \hbox{-} (3 \hbox{-} (4 \hbox{-} Fluoro \hbox{-} 2 \hbox{-} methoxyphenyl) piperazin-1-yl)-3-methyl-6-(4 \hbox{-} pyrimidyl)-3 \textit{H-pyrimidin-4-one};$
- 2-(3-(4-Chloro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(5-Bromo-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- $2\hbox{-}(3\hbox{-}(2,6\hbox{-Dichlorophenyl}) piperazin-1\hbox{-}yl)-3\hbox{-methyl-}6\hbox{-}(4\hbox{-pyridyl})-3H\hbox{-pyrimidin-}4\hbox{-}one;$
- $2\hbox{-}(3\hbox{-}(2,4\hbox{-Dimethoxyphenyl}) piperazin-1-yl)-3\hbox{-methyl-6-}(4\hbox{-pyridyl})-3\hbox{\it H-pyrimidin-4-one}; \\$
- $2\hbox{-}(3\hbox{-}(3,4\hbox{-Dimethoxyphenyl}) piperazin-1\hbox{-}yl)-3\hbox{-methyl-6-}(4\hbox{-pyrimidyl})-3H-\\ pyrimidin-4\hbox{-one};$
- 2-(3-(2,5-Dimethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- $2\hbox{-}(3\hbox{-}(2,4\hbox{-Difluoro-6-methoxyphenyl}) piperazin-1\hbox{-yl})-3\hbox{-methyl-6-}(4\hbox{-pyrimidyl})-3H-pyrimidin-4\hbox{-one};$
- $2\hbox{-}(3\hbox{-}(1\hbox{-Naphthyl}) piperazin-1\hbox{-}yl)\hbox{-}3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyrimidyl)\hbox{-}3H\hbox{-}pyrimidin-4\hbox{-}one;$
- 2-(3-(2-Naphthyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- $2\hbox{-}(3\hbox{-}(2,3\hbox{-}{\rm Dihydrobenzofuran-7-yl}) piperazin-1\hbox{-}yl)\hbox{-}3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyrimidyl)\hbox{-}3$$$ H-pyrimidin-4\hbox{-}one;$
- $2\hbox{-}(3\hbox{-}(Benzo furan-2\hbox{-}yl)piperazin-1\hbox{-}yl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyrimidyl)\hbox{-}3$$H$-pyrimidin-4-one;}$
- 2-(3-(4-(Pyrrolidin-1-yl-methyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;

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2\hbox{-}(3\hbox{-}(4\hbox{-}(Pyrrolidin-1\hbox{-}yl)phenyl)piperazin-1\hbox{-}yl)\hbox{-}3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyrimidyl)\hbox{-}3\,H-pyrimidin-4\hbox{-}one;}
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- 2-(3-(2-methoxy-4-(pyrrolidin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(2-methoxy-5-(pyrrolidin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(3-(4-(Phenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(4-(4-Fluorophenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- $2\hbox{-}(3\hbox{-}(4\hbox{-}(4\hbox{-}Methoxyphenyl)phenyl)piperazin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyrimidyl)-3$$H-pyrimidin-4-one;$
- $2\text{-}(3\text{-}(4\text{-}(2\text{-Methoxyphenyl})\text{phenyl})\text{piperazin-1-yl})\text{-}3\text{-methyl-6-}(4\text{-pyrimidyl})\text{-}3H\text{-}pyrimidin-4\text{-}one;}$
- 2-(3-(4-(Morpholin-4-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(3-(4-(4-Methylpiperazin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(4-Fluoro-2-methoxyphenyl)-4-methylpiperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- (S)-2-(3-(4-Fluoro-2-methoxyphenyl)-4-methylpiperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- (R)-2-(3-(4-Fluoro-2-methoxyphenyl)-4-methylpiperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(4-Acetyl-3-(4-fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(4-Benzyl-3-(4-fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;

2-(4-(4-Fluorophenyl)piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one; 2-(4-Cyano-4-phenylpiperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one; 2-(4-(6-Fluorobenofuran-3-yl)piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;

- 2-(3-(Benzoisoxazol-3-yl)piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- (S)-2-(3-(Benzoisoxazol-3-yl)piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- (R)-2-(3-(Benzoisoxazol-3-yl)piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- $2\text{-}(3\text{-}(6\text{-Fluorobenzoisoxazol-3-yl}) piperidin-1\text{-}yl)-3\text{-}methyl-6\text{-}(4\text{-}pyrimidyl)-3} \\ H-pyrimidin-4\text{-}one;$
- 2-(4-(6-Fluorobenzoisoxazol-3-yl)piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(4-(5-Methylbenzofuran-3-yl) piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one; and
- 2-(4-(6-Fluorobenzothiophene-3-yl) piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one.

Salts of the aforementioned preferred compound, and solvates or hydrates of the aforementioned compounds and salts thereof are also preferred.

The 3-substituted-4-pyrimidone compounds represented by the aforementioned formula (I) can be prepared, for example, according to the method explained below.

(In the above scheme, definitions of Q, R, X and Y are the same as those already described.)

The 2-thiopyrimidone represented by the above formula (III) is prepared easily by a modification of the method described in EP 354,179. The reaction may be carried out in the presence of a base such as sodium hydroxide, potassium hydroxide, sodium methoxide, sodium ethoxide, potassium tert-butoxide, sodium carbonate, sodium hydrogencarbonate, potassium carbonate, triethylamine, diisopropylethylamine, and 1,8-diazabicyclo[5,4,0]undec-7-en for 1 to 100 hours at a suitable temperature ranging from 0 °C to 200 °C under nitrogen or argon atmosphere or under ordinary air to afford the desired compound (III). Examples of a solvent for the reactions include, for example, alcoholic solvent such as methanol, ethanol, 1-propanol, isopropanol, tert-butanol, ethylene glycol, propylene glycol; etheric solvents such as diethyl ether, tert-butyl methyl ether, tetrahydrofuran, isopropyl ether; hydrocarbonic solvents such as benzene, toluene, xylene; halogenated hydrocarbonic solvents such as dichloromethane, chloroform, dichloroethane; aprotic polar solvents such as formamide, N,N-dimethylformamide, N,N-dimethylacetamide, N-methylpyrrolidone, dimethyl sulfoxide, sulfolane, hexamethylphosphoric triamide, water and the like. Generally, a single solvent or a mixture of two or more solvents may be used so as to be suitable to a base used.

Then the 2-thiopyrimidone derivative (III) is transformed into the 2-chloropyrimidone (IV) by a chlorinating agent. The reaction time and temperature depend on the chlorinating agent used. Examples of a chlorinating agent for the reactions include, for example, thionyl chloride, thionyl chloride and

dimethylformamide, phosphorus oxychloride, phosphorus oxychloride and dimethylformamide, oxalyl chloride, phosphorous oxychloride and dimethylformamide, and phosphorus pentachloride.

The amine represented by the above formula (V) may be prepared by a modification of the method described in Japanese Patent Unexamined Publication [Kokai] No. 52-139085/1977 or according to well-known methods of one skilled in the art.

Then the chloride derivative (IV) is allowed to react with the amine (V) or salts thereof in the presence of a base such as sodium hydroxide, potassium hydroxide, sodium methoxide, sodium ethoxide, sodium carbonate, sodium hydrogencarbonate, potassium carbonate, triethylamine, diisopropylethylamine, and 1,8-diazabicyclo[5,4,0]undec-7-en for 0.1 to 100 hours at a suitable temperature ranging from 0 °C to 200 °C under nitrogen or argon atmosphere or under ordinary air to afford the desired compound (II).

Examples of a solvent for the reactions include, for example, alcoholic solvent such as methanol, ethanol, 1-propanol, isopropanol, tert-butanol, ethylene glycol, propylene glycol; etheric solvents such as diethyl ether, tert-butyl methyl ether, tetrahydrofuran, isopropyl ether; hydrocarbonic solvents such as benzene, toluene, xylene; halogenated hydrocarbonic solvents such as dichloromethane, chloroform, dichloroethane; aprotic polar solvents such as formamide, N,N-dimethylformamide, N,N-dimethylacetamide, N-methylpyrrolidone, dimethyl sulfoxide, sulfolane, hexamethylphosphoric triamide, water and the like. Generally, a single solvent or a mixture of two or more solvents may be used so as to be suitable to a base used.

The compounds of the present invention have inhibitory activity against TPK1, and they inhibit TPK1 activity in neurodegenerative diseases like Alzheimer disease, thereby suppress the neurotoxicity of A β and the formation of PHF and inhibit the nerve cell death. Accordingly, the compounds of the present invention

are useful as an active ingredient of a medicament which radically enables preventive and/or therapeutic treatment of Alzheimer disease. In addition, the compounds of the present invention are also useful as an active ingredient of a medicament for preventive and/or therapeutic treatment of ischemic cerebrovascular accidents, Down syndrome, cerebral bleeding due to solitary cerebral amyloid angiopathy, progressive supranuclear palsy, subacute sclerosing panencephalitis, postencephalitic parkinsonism, pugilistic encephalosis, Guam parkinsonism-dementia complex, Lewy body disease, Pick's disease, corticobasal degeneration frontotemporal dementia, vascular dementia, acute stroke and traumatic injuries, brain and spinal cord trauma, peripheral neuropathies, retinopathies and glaucoma, non-insulin dependent diabetes (such as diabetes type II), and obesity, manic depressive illness, schizophrenia, alopecia, cancers such as breast cancer, non-small cell lung carcinoma, thyroid cancer, T or B-cell leukemia and several virus-induced tumors.

As the active ingredient of the medicament of the present invention, a substance may be used which is selected from the group consisting of the compound represented by the aforementioned formula (I) and pharmacologically acceptable salts thereof, and solvates thereof and hydrates thereof. The substance, per se, may be administered as the medicament of the present invention, however, it is desirable to administer the medicament in a form of a pharmaceutical composition which comprises the aforementioned substance as an active ingredient and one or more of pharmaceutical additives. As the active ingredient of the medicament of the present invention, two or more of the aforementioned substance may be used in combination. The above pharmaceutical composition may be supplemented with an active ingredient of other medicament for the treatment of, for example, Alzheimer disease, vascular dementia, acute stroke and traumatic injuries, brain and spinal cord trauma, peripheral neuropathies, retinopathies and glaucoma, non-insulin dependent diabetes (such as diabetes type II), and obesity, manic depressive illness,

schizophrenia, alopecia, cancers such as breast cancer, non-small cell lung carcinoma, thyroid cancer, T or B-cell leukemia and several virus-induced tumors.

A type of the pharmaceutical composition is not particularly limited, and the composition may be provided as any formulation for oral or parenteral administration. For example, the pharmaceutical composition may be formulated, for example, in the form of pharmaceutical compositions for oral administration such as granules, fine granules, powders, hard capsules, soft capsules, syrups, emulsions, suspensions, solutions and the like, or in the form of pharmaceutical compositions for parenteral administrations such as injections for intravenous, intramuscular, or subcutaneous administration, drip infusions, transdermal preparations, transmucosal preparations, nasal drops, inhalants, suppositories and the like. Injections or drip infusions may be prepared as powdery preparations such as in the form of lyophilized preparations, and may be used by dissolving just before use in an appropriate aqueous medium such as physiological saline.

Sustained-release preparations such as those coated with a polymer may be directly administered intracerebrally.

Types of pharmaceutical additives used for the manufacture of the pharmaceutical composition, content rations of the pharmaceutical additives relative to the active ingredient, and methods for preparing the pharmaceutical composition may be appropriately chosen by those skilled in the art. Inorganic or organic substances, or solid or liquid substances may be used as pharmaceutical additives. Generally, the pharmaceutical additives may be incorporated in a ratio ranging from 1% by weight to 90% by weight based on the weight of an active ingredient.

Examples of excipients used for the preparation of solid pharmaceutical compositions include, for example, lactose, sucrose, starch, talc, cellulose, dextrin, kaolin, calcium carbonate and the like. For the preparation of liquid compositions for oral administration, a conventional inert diluent such as water or a vegetable oil

may be used. The liquid composition may contain, in addition to the inert diluent, auxiliaries such as moistening agents, suspension aids, sweeteners, aromatics, colorants, and preservatives. The liquid composition may be filled in capsules made of an absorbable material such as gelatin. Examples of solvents or suspension mediums used for the preparation of compositions for parenteral administration, e.g. injections, suppositories, include water, propylene glycol, polyethylene glycol, benzyl alcohol, ethyl oleate, lecithin and the like. Examples of base materials used for suppositories include, for example, cacao butter, emulsified cacao butter, lauric lipid, witepsol.

Dose and frequency of administration of the medicament of the present invention are not particularly limited, and they may be appropriately chosen depending on conditions such as a purpose of preventive and/or therapeutic treatment, a type of a disease, the body weight or age of a patient, severity of a disease and the like. Generally, a daily dose for oral administration to an adult may be 0.01 to 1,000 mg (the weight of an active ingredient), and the dose may be administered once a day or several times a day as divided portions, or once in several days. When the medicament is used as an injection, administrations may preferably be performed continuously or intermittently in a daily dose of 0.001 to 100 mg (the weight of an active ingredient) to an adult.

Examples

The present invention will be explained more specifically with reference to examples. However, the scope of the present invention is not limited to the following examples. The compound numbers in the examples correspond to those in the table above.

Reference Example 1: Synthesis of 2-mercapto-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one

A solution of ethyl 3-oxo-3-(4-pyridyl)propionate (29.0 g, 150 mmol), N-methyl thiourea (40.6 g, 450 mmol) and 1,8-diazabicyclo[5,4,0]-7-undecene (22.4 ml, 150 mmol) was refluxed for 4 hours and the solution of methanesulfonic acid (14.4 g, 150 mmol) in water (50 ml) was added after cooling by ice-water. The precipitate was washed with water, filtered and dried to give the title compound (23.7 g, 72%).

¹H-NMR (DMSO-d₆) δ : 3.58(s, 3H), 6.40(s, 1H), 7.72(dd, J=1.8, 4.5Hz, 2H), 8.73(dd, J=1.5, 4.8Hz, 2H), 12.92(brd, 1H).

Reference Example 2: Synthesis of 2-chloro-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one

Phosphorous oxychloride (26.11g, 170 mmol) was added to dimethylformamide(180 ml) and stirred 20 min. 2-Mercapto-3-methyl-6-(4-pyridyl)-pyrimidine-4-one (24.15 g, 110 mmol) was added to the solution and stirred 5 min and then stirred at 70°C for 2 hours. Ethyl acetate (630 ml) was added to the ice-cooled solution and precipitate was collected by filtration after stirring for 20 minutes. After drying, the precipitate was dissolved in water (400 ml) and pH was adjusted to 10 by using aqueous sodium hydroxide. The precipitate was washed with water, filtered and dried to give the title compound (18.82 g, 77%).

¹H-NMR (CDCl₃) δ: 3.72(s, 3H), 6.90(s, 1H), 7.78(dd, J=1.7, 4.5Hz, 2H), 8.75(dd, J=1.6, 4.5Hz, 2H).

Reference Example 3: Synthesis of 2-mercapto-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one

A solution of ethyl 3-oxo-3-(4-pyrimidyl)propionate (34.1 g, 176 mmol), N-methyl thiourea (47.5 g, 527 mmol) and 1,8-diazabicyclo[5,4,0]-7-undecene (26.3 ml, 176 mmol) in ethanol (340 ml) was refluxed for 2 hours and the solution of methanesulfonic acid (16.9 g, 176 mmol) in water (70 ml) was added after cooling by

ice-water. The precipitate was washed with water, filtered and dried to give the title compound (30.2 g, 78%).

¹H-NMR (DMSO-d₆) δ : 3.56(s, 3H), 6.88(s, 1H), 8.24(dd, J=1.2, 5.4 Hz, 2H), 9.05 (dd, J=5.4 Hz, 1H), 11.94(s, 1H).

Reference Example 4: Synthesis of 2-chloro-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one

Phosphorous oxychloride (4.60 g, 30 mmol) was added to dimethylformamide(32 ml) and stirred for 20 min at 0°C. 2-Mercapto-3-methyl-6-(4-pyrimidyl)-3H-pyrimidine-4-one(4.40 g, 20 mmol) was added to the solution and stirred 5 min and then stirred at 70°C for 2 hours. The reaction mixture was poured into ice water, neutralized by solid potassium carbonate, and extracted with ethyl acetate. The organic layer was washed with brine, dried over sodium sulfate, and evaporated under reduced pressure. Purification of the residue by silica gel chromatography (ethyl acetate) gave the title compound (1.20 g, 27%). 1 H-NMR (CDCl₃) $\delta: 3.74(s, 3H), 7.56(s, 1H), 8.18(d, J=5.1 Hz, 1H), 8.92(d, J=5.1 H$ 1H), 9.30(s, 1H).

MS[M+H]+: 223.

Example 1: Synthesis of 2-(2-(4-fluoro-2-methoxyphenyl)piperazin-4-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one dihydrochloride (No. XA468)

A solution of 2-bromo-5-fluoroanisole (11.8 g, 57.6 mmol) in tetrahydrofuran (60 ml) was dropped into the magnesium (1.40 g, 57.6 mmol) in refluxed tetrahydrofuran (32 ml) containing small amount of 1,2-dibromoethane and refluxed for 15 min. After addition of tetrehydrofuran (50 ml), the solution was cooled to -78 °C and diethyl oxalate (7.41 g, 50.7 mmol) in diethyl ether (50 ml) was dropped into the solution. After stirring at same temperature for 30 min, the solution was warmed to -10°C and 1N aqueous hydrogen chloride (50 ml) and water

were added. Organic layer was extracted with diethyl ether, washed with brine and dried over magnesium sulfate. After removal of the solvent under reduced pressure, purification of the residue by silica gel column chromatography (eluent: hexane/ethyl acetate = 5/2) gave ethyl 2-(4-fluoro-2-methoxyphenyl)-2-oxoacetate (6.80g, 59%)

¹H-NMR (CDCl₃) δ : 1.40(3H, t, J=7.1 Hz),3.87(3H, s), 4.89(2H, q, J=7.1Hz), 6.68(1H, d, J=10.5 Hz), 6.77-6.81(1H, m), 7.91-7.95(1H, m).

Ethylenediamine (0.60 g, 10.0 mmol) was added to a solution of ethyl 2-(4-fluoro-2-methoxyphenyl)-2-oxoacetate (2.26 g, 10.0 mmol) in ethanol(30 ml) and refluxed 4 hr. After removal of the solvent under reduced pressure, residue was washed with ethanol-diethyl ether to give 5,6-dihydro-3-(4-fluoro-2-methoxyphenyl)pyrazinone (1.76 g, 79%).

¹H-NMR (CDCl₃) δ: 3.50-3.56 (2H, m), 3.81 (3H, s), 3.88-3.92 (2H, m), 6.65(1H, d, J=11.0 Hz), 6.70-6.76 (1H, m), 6.89(1H, bs), 7.36-7.40(1H, m).

5,6-Dihydro-3-(4-fluoro-2-methoxyphenyl)pyrazinone was added to the solution of lithium aluminium hydride (0.46 g, 12 mmol) in diethyl ether (25 ml) and refluxed for 6 hr. Water (0.48 ml), 15% sodium hydroxide solution (0.48 ml) and again water (1.21 ml) were added to the ice-cooled solution and the precipitate was filtered and washed with dichloromethane. Combined organic layer was evaporated to give 2-(4-fluoro-2-methoxyphenyl)piperazine (0.83 g, 99%).

¹H-NMR (CDCl₃) δ: 2.02(2H, s), 2.57-2.63 (1H, m), 2.80-2.89 (1H, m), 2.92-2.99 (2H, m), 3.06-3.12 (2H, m), 3.80(3H, s), 4.06 (1H, d, J=10.0 Hz), 6.56-6.65 (2H, m), 7.40 (1H, t, J=7.8 Hz).

2-Chloro-3-methyl-6-(4-pyridyl)-pyrimidin-4-one (222 mg, 1.0 mmol) was added to an ice-cooled solution of 2-(4-fluoro-2-methoxyphenyl)piperazine (210 mg, 1.0 mmol), triethylamine (0.15 ml, 1.1 mmol) in N,N-dimethylformamide (10 ml) and stirred at that temperature for 1 hr and then at room temperature for 2 hr.

Next day, reaction was quenched by ice-water and the filtrate was washed with

water and dried to give 2-(2-(4-fluoro-2-methoxyphenyl)piperazin-4-yl)-3-methyl-6-(4-pyridyl)-pyrimidin-4-one (246 mg, 62%).

¹H-NMR (CDCl₃) δ : 2.89-2.96 (1H, m), 3.19-3.31 (3H, m), 3.59 (3H, s), 3.62-3.74 (2H, m), 3.35 (3H, s), 4.39-4.44 (1H, m), 6.63-6.71 (2H, m), 6.67 (1H, s), 7.51-7.55 (1H, m), 7.81 (2H, dd, J=1.7, 4.6 Hz), 8.71 (2H, dd, J=1.7, 4.6 Hz).

4N Hydrogen chloride in 1,4-dioxane (0.4 ml) was added to the solution of 2-(2-(4-fluoro-2-methoxyphenyl)piperazin-4-yl)-3-methyl-6-(4-pyridyl)-pyrimidin-4-one (217 mg, 0.6 mmol) in dichloromethane (5 ml) and stirred for 15 min. After addition of diethyl ether, filtration and wash with diethyl ether and dryness gave the title compound (260 mg, quant.).

Example 2: Synthesis of 2-(2-(4-methoxyphenyl)-piperazine-4-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one dihydrochloride (No. XA393)

Dimethylslufoxide (50 ml) solution of 4-methyoxyphenacylbromide (9.94 g, 43.4 mmol) and water (1.6 ml, 88.8 mmol) were stirred at 50℃ for 2.5 hr. Water was added and the solution was extracted with ethyl acetate 3 times and washed with brine and then dried over sodium sulfate. Removal of the solvent gave 4-methoxyphenylglyoxal (8.30 g, quant.).

¹H-NMR (DMSO) δ : 3.84 (3H, s), 6.60-6.69 (1H, m), 7.04 (2H, d, J=8.8 Hz), 8.05 (2H, d, J=9.1 Hz).

Methanol (5 ml) solution of ethylenediamine (3.74 g, 62.29 mmol) was added to the ice-cooled solution of 4-methoxyphenylglyoxal (8.30 g, 45.5 mmol) in methanol (100 ml) and tetrahydrofuran (50 ml) and stirred for 10 min. After cooling to 0℃, sodium tetrahydroborate (6.14 g, 162.2 mmol) and additional methanol (50 ml) was added and stirred overnight. After removal of the solvent, aqueous sodium hydroxide was added and was extracted with dichloromethane three times and washed with brine and dried over sodium sulfate. After removal of the solvent, purification of the residue by silica gel column chromatography (eluent;

dichloromethane/ethanol/diethylamine = 20/2/1) gave 2-(4-methoxypheny)-piperazine (3.96 g, 45%).

¹H-NMR (CDCl₃) δ: 2.69(1H, dd, J=10.3, 11.9 Hz), 2.80-3.01(4H, m), 3.07-3.11 (1H, m), 3.68-3.73(1H, m), 3.79(3H, s), 6.84-6.88 (2H, m), 7.27-7.32 (2H, m).

A solution of triethylamine (697 mg, 6.9 mmol), 2-(4-methoxyphenyl)piperazine (430 mg, tetrahydrofuran (10 ml) was stirred at room temperature for 30
min and at 50°C for 3 hr. Solvent was removed under reduced pressure, and 1N
aqueous sodium hydroxide solution was added to the residue and extracted by
dichloromethane three times and washed with brine and dried over sodium sulfate.
After removal of the solvent under reduced pressure, the residue was purified by
silica gel column chromatography (eluent; dichloromethane/ethanol = 10/1) to give
2-(2-(4-methoxyphenyl)-piperazine-4-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one
(594 mg, 76%)

¹H-NMR (CDCl₃) δ: 3.02 (1H, dd, J=10.8, 12.7 Hz), 3.18-3.25 (3H, m), 3.55 (3H, s), 3.57-3.67 (2H, m), 3..82 (3H, s), 3.98(1H, dd, J=2.7, 10.8 Hz), 6.67 (1H, s), 6.92 (2H, d, J=8.7 Hz), 7.37 (2H, d, J=8.7 Hz), 7.80 (2H, d, J=6.0 Hz), 8.71 (2H, d, J=6.0 Hz).

4N Hydrogen chloride in ethyl acetate (5 ml) was added to the solution of 2-(2-(4-methoxyphenyl)-piperazine-4-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one (594 mg, 1.6 mmol) in dichloromethane (5 ml) and stirred for 1 hr. Wash with ethyl acetate after removal of the solvent and dryness gave the title compound (683 mg, 96%).

Example 3: Synthesis of 2-(2-(4-chlorophenyl)-piperazine-4-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one hydrochloride (No. XA371)

Mixture of methyl (4-chlorophenyl)acetate (5.10 g, 27.6 mmol) and N-bromosuccinimide (5.16 g, 29 mmol) in carbon tetrachloride was treated by Hg lamp. After filtration, solvent was removed under reduced pressure and the residue was dissolved in methanol. Ethylenediamine (2.03 ml, 30.4 mmol) and

triethylamine (2.06 ml, 14.8 mmol) and di-tert-butyldicarbonate (3.10 ml, 13.5 mmol) were added to the solution of 3-(4-chlorophenyl)piperazin-2-one (2.60 g, 12.3 mmol) in dichloromethane (100 ml) and stirred. The reaction mixture was washed with 1N aqueous hydrogen chloride, water, brine and then dried. After removal of the solvent under reduced pressure, residue was purified by silica gel column chromatography to give 4-(tert-butoxycarbonyl)-3-(4-chlorophenyl)-piperazin-2-one.

¹H-NMR (CDCl₃) δ : 1.44 (9H, s), 3.21-3.32 (2H, m), 3.48 (1H, m), 4.04 (1H, brs), 5.66 (1H, brs), 7.10 (1H, brs), 7.30-7.38 (4H, m).

Solution of 4-(tert-butoxycarbonyl)-3-(4-chlorophenyl)-piperazin-2-one (500 mg, 1.6 mmol) and acetic acid (929 μ l, 16 mmol) were added to a refluxed solution of sodium borohydride (608 mg, 16 mmol) in 1,4-dioxane (5 ml) and reflux was continued. The reaction was quenched by water and extracted with dichloromethane and washed with brine and dried. After removal of the solvent, residue was purified by silica gel column chromatography to give 4-(tert-butoxycarbonyl)-3-(4-chlorophenyl)piperazine (330 mg, 69%). 1 H-NMR (CDCl₃) δ : 1.46(9H, s), 2.76-2.99(3H, m), 3.13(1H, dd, J=13.0 Hz, 4.3 Hz), 3.45-3.49(2H, m), 3.92(1H, m), 5.15(1H, s), 7.27-7.33(4H, m).

A solution of 4-(tert-butoxycarbonyl)-3-(4-chlorophenyl)piperazine (330 mg, 1.1 mmol), 2-chloro-3-methyl-6-(4-pyridyl)pyrimidin-4-one (246 mg, 1.1 mmol) and triethylamine (170 μ l, 1.22 mmol) in tetrahydrofuran were refluxed. Usual workup and purification by silica gel column chromatography gave 2-(1-(tert-butoxy-carbonyl)-2-(4-chlorophenyl)-piperazine-4-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one (500 mg, 93%).

¹H-NMR (CDCl₃) δ : 1.45(9H, s), 3.09(1H, m), 3,35(3H, s), 3.40-3.63(4H, m), 3.96-4.19(2H, m), 5.43(1H, s), 6.68(1H, s), 7.23(2H, d, J=8.3 Hz), 7.32(2H, d, J=8.3 Hz), 7.78(2H, d, J=5.9 Hz), 8.72(2H, d, J=5.9 Hz).

4N Hydrogen chloride in ethyl acetate was added to the solution of

2-(1-(tert-butoxycarbonyl)-2-(4-chlorophenyl)-piperazine-4-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one (500 mg, 1.0 mmol) in ethyl acetate and stirred. Filtration and successive dryness gave the title compound (373mg, 79%).

Example 4: Synthesis of 3-methyl-2-(3-(4-((1-pyrrolidinyl)methyl)phenyl)piperidine -1-yl)-6-(4-pyridyl)pyrimidin-4-one fumarate (No. XB43)

Tetrakis(triphenylphosphine)palladium (0.65 g, 0.56 mmol),
4-formylphenylboric acid (2.81 g, 18.7 mmol), 2M aqueous sodium carbonate (18.7 ml, 37.4 mmol) and ethanol were added to the nitrogen-saturated solution of
3-bromopyridine (2.66 g, 16.8 mmol) in toluene and refluxed under nitrogen for 8 hrs. Water was added to the solution and extracted with ethyl acetate, washed with water and brine and dried. Solvents were removed under reduced pressure and the residue was purified by silica gel column chromatography (eluent; hexane/ethyl acetate = 1/1.5) to give 4-(3-pyridyl)benzaldehyde (0.78 g, 25%).

Methyl iodide (0.8 ml, 12.9 mmol) was added to a solution of 4-(3-pyridyl)benzaldehyde (0.78 g, 4.3 mmol) in dichloromethane and stirred 2 days. Additional methyl iodide (0.8 ml, 12.9 mmol) was added and stirred for 3 hr. After removal of the solvent, methanol was added to the residue and ice-cooled. Sodium tetrahydroborate (6.4 g, 17.0 mmol) was added to the solution and stirred for 1.5 hr with warming to room temperature. Organic solvents were removed under reduced pressure after addition of water and extracted with ethyl acetate, washed with water and brine and dried over sodium sulfate. After removal of the solvent under reduced pressure, residue was purified by silica gel chromatography (eluent ethyl acetate to methanol) to give 3-(4-hydroxymethylphenyl)-1-methyl-1,2,5,6-tetrahydropyridine (0.63 g, 72%).

Triethylamine (1.29 ml, 9.2 mmol), acetic anhydride (0.35 ml, 3.7 mmol) were added to a solution of 4-(hydroxymethyl)phenyl-1-methyl-1,2,5,6-tetrahydropyridine (0.63 g, 3.1 mmol) in dichloromethane and stirred overnight.

Organic solvents were removed under reduced pressure after addition of water and extracted with ethyl acetate, washed with water and brine and dried over sodium sulfate. Removal of the solvent under reduced pressure gave 3-(4-acetozymethyl-phenyl)-1-methyl-1,2,5,6-tetrahydropyridine (0.67 g, 89%).

A solution of 3-(4-acetoxymethylphenyl)-1-methyl-1,2,5,6-tetrahydropyridine (0.67 g, 2.7 mmol) and 1-chloroethyl chloroformate (0.36 ml, 3.3 mmol) in dichloroethane was refluxed for 2 hr. Organic solvents were removed under reduced pressure after addition of water and extracted with ethyl acetate, washed with water and brine and dried over sodium sulfate. After removal of the solvent, methanol was added and refluxed for 1.5 hr. Tetrahydrofuran and water were added to the residue after removal of the solvent under reduced pressure and triethylamine (1.9 ml, 13.6 mmol) and di-tert-butyl dicarbonate (0.66 g, 3.0 mmol) were added and stirred. Organic solvents were removed under reduced pressure after addition of water and extracted with ethyl acetate, washed with water and brine and dried over sodium sulfate. Removal of the solvent under reduced pressure and the residue was purified by silica gel chromatography to give 3-(4-acetoxymethylphenyl)-1-(tert-butoxycarbonyl)-1,2,5,6-tetrahydropyridine (0.71 g, 78%).

Palladium on charcoal was added to the solution of 3-(4-acetoxy-methylphenyl)-1-(tert-butoxycarbonyl)-1,2,5,6-tetrahydropyridine (0.71 g, 2.1 mmol) in ethyl acetate and stirred under hydrogen atmosphere. After filtration with celite and removal of the solvent under reduced pressure, methanol and 1N aqueous sodium hydroxide were added and stirred. Organic solvents were removed under reduced pressure after addition of water and extracted with ethyl acetate, washed with water and brine and dried over sodium sulfate. Removal of the solvent under reduced pressure and the residue was purified by silica gel chromatography (eluent; hexane/ethyl acetate = 3/1) to give 3-(4-hydroxymethylphenyl)-1-(tert-butoxycarbonyl)piperidine (0.39 g, 62%).

Triethylamine (0.47 g, 3.4 mmol) and methanesulfonyl chloride (0.12 ml, 1.6 mmol) were added to an ice-cooled solution of 3-(4-hydroxymethylphenyl)-1-(tert-butoxycarbonyl)piperidine (0.39 g, 1.34 mmol) in dichloromethane and stirred for 7.5 hr. Pyrrolidine (1.0 ml, 12 mmol) was added to the solution and stirred overnight. Organic solvents were removed under reduced pressure after addition of water and extracted with ethyl acetate, washed with water and brine and dried over sodium sulfate. Removal of the solvent under reduced pressure and the residue was purified by silica gel chromatography (eluent; ethyl acetate to ethyl acetate/methanol = 1/1, then methanol only) to give 3-(4-(1-pyrrolidinyl)methyl-phenyl)-1-(tert-butoxycarbonyl)piperidine (0.26 g, 56%).

4N Hydrogen chloride in ethyl acetate was added to 3-(4-(1-pyrrolidinyl)-methylphenyl)-1-(tert-butoxycarbonyl)piperidine (0.26 g, 0.75 mmol) and stirred overnight. After filtration and dryness, triethylamine (0.5 ml, 3.6 mmol), 2-chloro-3-methyl-6-(4-pyridyl)-pyrimidin-4-one (0.14 g, 0.63 mmol) and tetrahydrofuran were added and stirred at 70℃. Organic solvents were removed under reduced pressure after addition of water and extracted with ethyl acetate, washed with water and brine and dried over sodium sulfate. Removal of the solvent under reduced pressure and the residue was dissolved into ethyl acetate. A solution of fumaric acid (0.095 g, 0.82 mmol) in acetone was added and the resulting precipitate was filtered and dried to give the title compound (0.29 g, 76%).

Example 5: Synthesis of (R)-2-(2-(4-chlorophenyl)piperazin-4-yl)-3-methyl-6-(4-pyridyl)-pyrimidin-4- one (No. XA372)

To a solution of (S)-2-methyl-CBS-oxazaborolidine (27.6 mL, 1.0 M solution in toluene, 27.6 mmol) was added borane-tetrahydrofuran complex (166 ml, 1.0 M solution in tetrahydrofuran, 166 mmol) at -40 °C. To the resulting solution was added a solution of 4'-chlorophenacyl bromide (32.25 g, 138.1 mmol) in tetrahydrofuran (200 ml) through dropping funnel over 1 h at -40 °C. After stirring

for 3 hours below 0 °C, methanol (ca. 50 ml) was added dropwise. After stirring the resulting solution for additional 30 min at room temperature, solvent was removed under reduced pressure. The residue, dissolved in ethyl acetate, was treated with 1 N hydrochloric acid to form white precipitate, which was filtered off. The layers of the filtrate was separated, and the organic layer was washed with hydrochloric acid and brine successively, dried over anhydrous sodium sulfate, filtered, and concentrated under reduced pressure. The residue was used for the next reaction without further purification.

The residue was dissolved in ether (250 ml), and stirred with potassium hydroxide (15.5 g, 276 mmol) in water (250 ml) vigorously. After consumption of the starting material, the layers were separated. The organic layer was washed with brine, dried over anhydrous sodium sulfate, filtered, and concentrated under reduced pressure. The residue was used for the next reaction without further purification.

The residue was heated with benzylamine (37.7 ml, 345 mmol) at 80 °C for 4.5 h. After cooling at room temperature, the resulting white crystals was washed with ether/hexane and collected to afford (S)-2-benzylamino-1-(4-chlorophenyl)-ethanol (23.8 g, 65.8%). The excess benzylamine in the filtrate was distilled off at 120 °C under reduced pressure. From the residue, another (S)-2-benzylamino-1-(4-chlorophenyl)ethanol (2.41 g, 6.7%) was obtained.

1H NMR (CDCl₃) ™: 2.68(1H, dd, J=12.3, 8.9Hz), 2.92(1H, dd, J=12.3, 3.7Hz), 3.80(1H, d, J=11.9Hz), 3.86(1H, d, J=11.9Hz), 4.68(1H, dd, J=8.9, 3.7Hz), 7.30(9H, m).

To a suspension of (S)-2-benzylamino-1-(4-chlorophenyl)ethanol (15.76 g, 60.21 mmol) and triethylamine (33.6 ml, 241 mmol) in dichloromethane (300 ml) was added a solution of thionyl chloride (4.83 ml, 66.2 mmol) in dichloromethane (20 ml) at -78 °C over 20 min. The resulting suspension was stirred at -78 °C for 20 min and at 0 °C for additional 20 min. The reaction mixture was partitioned

between ether and water, and the organic layer was washed with brine, dried over anhydrous sodium sulfate, filtered, and concentrated under reduced pressure. The residue was purified by silica gel column chromatography (eluent: 10-20% ethyl acetate-hexane) to afford (2RS,5S)-3-benzyl-5-(4-chlorophenyl)-1,2,3-oxathiazolidine 2-oxide (16.2 g 87.4%) as a pale yellow solid.

The resulting product was obtained as a mixture of two diastereomers due to the S-oxide.

major isomer: ¹H NMR (CDCl₃) δ : 3.31(1H, dd, J=10.5, 9.9Hz), 3.55(1H, dd, J=9.0, 6.3Hz), 3.88(1H, d, J=13.2Hz), 4.37(1H, d, J=13.2Hz), 5.49(1H, dd, J=10.5, 6.3Hz), 7.22-7.43(9H, m).

minor isomer: ¹H NMR (CDCl₃) δ : 3.21(1H, dd, J=13.5, 4.5Hz), 3.77(1H, dd, J=13.5, 11.4Hz), 4.05(1H, d, J=13.5Hz), 4.38(1H, d, J=13.5Hz), 5.99(1H, dd, J=11.4, 4.5Hz), 7.22-7.43(9H, m).

A solution of (2RS,5S)-3-benzyl-5-(4-chlorophenyl)-1,2,3-oxathiazolidine 2-oxide (16.2 g, 52.6 mmol) and sodium azide (17.11 g, 263.2 mmol) in N,N-dimethylformamide (100 ml) was heated at 70 °C for 24 hours. The reaction mixture was partitioned between ether and water, and the organic layer was washed with water and brine successively, dried over anhydrous sodium sulfate, and concentrated under reduced pressure. The residue was purified by silica gel column chromatography (eluent: 10-20% ethyl acetate-hexane) to afford (R)-N-benzyl-2-azido-2-(4-chlorophenyl)ethylamine (12.7 g, 83.8%) as a yellow oil. ¹H NMR (CDCl₃) δ: 2.81(1H, dd, J=12.5, 5.1Hz), 2.89(1H, dd, J=12.5, 8.5Hz), 3.82(2H, s),4.64(1H, dd, J=8.5, 5.1Hz),7.23-7.36(9H, m).

A solution of (R)-N-benzyl-2-azido-2-(4-chlorophenyl)ethylamine (12.7 g, 44.1 mmol) in tetrahydrofuran (176 mL) was treated with triphenylphosphine (13.9 g, 52.9 mmol) at room temperature. After addition of water (20 ml), the reaction mixture was heated at 60 °C for 1 h. The reaction mixture was condensed, and partitioned between ether and 1 N hydrochloric acid. The aqueous layer was

treated with 1 N aqueous sodium hydroxide solution until the solution became basic. The resulting solution was extracted with dichlromethane thoroughly. The combined organic layer was washed with water, dried over anhydrous sodium sulfate, filtered, and concentrated under reduced pressure. The residue was used for the next reaction without further purification.

The residue was heated with diethyl oxalate (18 ml, 132 mmol) at 120 °C for 1.5 h. The resulting white precipitate was washed with ether and collected to afford (R)-1-benzyl-5-(4-chlorophenyl)-2,3-dioxopiperazine (11.4 g, 82.2%). $^{1}\text{H NMR (CDCl}_{3}) \ \delta: 3.46(1\text{H}, \text{dd}, \text{J=}12.9, 8.1\text{Hz}), 3.60(1\text{H}, \text{dd}, \text{J=}12.9, 3.8\text{Hz}), 4.48(1\text{H}, \text{d}, \text{J=}14.7\text{Hz}), 4.79(1\text{H}, \text{d}, \text{J=}14.7\text{Hz}), 4.80(1\text{H}, \text{dd}, \text{J=}8.9, 3.8\text{Hz}), 6.83(1\text{H}, \text{s}), 7.13(4\text{H}, \text{m}), 7.27(5\text{H}, \text{m}).$

To a suspension of (R)-1-benzyl-5-(4-chlorophenyl)-2,3-dioxopiperazine (11.4 g, 36.3 mmol) in tetrahydrofuran (300 ml) was added borane-tetrahydrofuran complex (181 mL, 1.0 M solution in tetrahydrofuran, 181 mmol) at room temperature. After stirring for 24 hours, the reaction mixture was quenched with methanol (50 ml) at 0 °C, and concentrated under reduced pressure. The residue was treated with 10% aqueous sodium hydroxide solution (300 ml) and heated at 100 °C for 2 hours. After cooling at room temperature, the mixture was extracted with dichloromethane thoroughly. The combined organic layer was dried over anhydrous sodium sulfated, filtered, and concentrated under reduced pressure. The residue was used for the next reaction without further purification.

To a solution of the residue and triethylamine (7.58 ml, 54.4 mmol) in dichloromethane (150 ml) was added di-tert-butyl dicarbonate (9.49 g, 43.5 mmol) at room temperature. After stirring for 45 min, the resulting mixture was partitioned between dichloromethane and water, dried over anhydrous sodium sulfate, filtered, and concentrated under reduced pressure. The residue was purified by silica gel column chromatography (eluent: 10-20% ethyl acetate-hexane) to afford (R)-1-benzyl-4-(tert-butoxycarbonyl)-3-(4-chlorophenyl)piperazine (11.6 g,

82.8%) as an oil.

¹H NMR (CDCl₃) δ : 1.43(9H, s), 2.16(1H, dt, J=4.4, 11.7Hz), 2.40(1H, dd, J=4.4, 11.7Hz), 2.78(1H, dd, J=4.4, 11.7Hz), 2.98(1H, dt, J=4.4, 11.7Hz), 3.20(1H, d, J=12.8Hz), 3.42(1H, d, J=12.9Hz), 3.57(1H, d, J=12.9Hz), 3.89(1H, d, J=12.8Hz), 5.17(1H, s), 7.24-7.36(9H, m).

To a solution of (R)-1-benzyl-4-(tert-butoxycarbonyl)-3-(4-chlorophenyl)piperazine (11.6 g, 30.1 mmol) in 1,2-dichloroethane (80 ml) was added 1-chloroethyl chloroformate (4.91 ml, 45.1 mmol) at room temperature. Upon disappearance of the starting material, the reaction mixture was concentrated under reduced pressure. The residue was then dissolved in methanol (100 ml) and refluxed for 30 min. The resulting white precipitate was filtered and washed with methanol to afford (R)-2-(4-chlorophenyl)piperazine dihydrochloride, which was liberated with aqueous sodium hydroxide solution, and extracted with dichloromethane to afford (R)-2-(4-chlorophenyl)piperazine (3.04 g, 51.4%) as white solid.

¹H NMR (CDCl₃) δ :2.65(1H, dd, J=12.0, 10.5Hz), 2.82-3.04(4H, m), 3.09(1H, d, J=12.6Hz), 3.73(1H, dd, J=10.1, 2.7Hz), 7.29(4H, m)

The filtrate was concentrated under reduced pressure and partitioned between ether and 1 N hydrochloric acid. The aqueous layer was neutralized with 1 N aqueous sodium hydroxide solution, and extracted with dichloromethane thoroughly. The combined organic extracts were dried over anhydrous sodium sulfate, filtered, and concentrated under reduced pressure. The residue was purified after Boc-protection (Boc₂O, Et₃N, CH₂Cl₂) to furnish (R)-1,4-di(tert-butoxycarbonyl)-2-(4-chlorophenyl)piperazine (2.70 g, 22.6%) as pale yellow solid.

¹H NMR (CDCl₃) δ : 1.43(9H, s), 1.46(9H, s), 2.96(2H, m), 3.32(1H, dd, J=13.8, 4.2Hz), 3.74(1H, m), 3.94(1H, d, J=11.4Hz), 4.40(1H, d, J=13.2Hz), 5.23(1H, s), 7.25(2H, m)

To a suspension of (R)-2-(4-chlorophenyl)piperazine dihydrochloride (1.09 g, 4.05 mmol) in tetrahydrofuran (24 ml) was added triethylamine (2.82 ml, 20.3 mmol). After stirring for 15 min at room temperature, 2-chloro-3-methyl-6-(4pyridyl)-3H-pyrimidin-4-one (748 mg, 3.38 mmol) was added portionwise. Upon disappearance of the chloropyrimidone, the reaction mixture was condensed under reduced pressure. The residue was partitioned between saturated aqueous sodium bicarbonate solution and dichloromethane. The organic layer was dried over anhydrous sodium sulfate, filtered, and concentrated under reduced pressure to give pale yellow solid, which was recrystallized from ethanol to afford $(R) - 2 - (2 - (4 - chlorophenyl) piperazin - 4 - y\bar{l}) - 3 - methyl - 6 - (4 - pyridyl) - pyrimidin - 4 - one$ (998 mg, 77.4%) as white crystals. The enantiomer excess was determined by HPLC (>99% ee). The crystals were converted into its dihydrochloride salt. ¹H NMR (DMSO-d₆) δ : 3.40(3H, m), 3.46(3H, s), 3.62(1H, dd, J=12.0, 13.2Hz), 3.72(1H, m), 3.92(1H, t, J=15.5Hz), 4.68(1H, t, J=10.1Hz), 7.18(1H, s), 7.58(2H, d, J=8.6Hz), 7.83(2H, d, J=8.6Hz), 8.57(2H, d, J=6.6Hz), 9.01(2H, d, J=6.6Hz), 10.20(1H, d, J=7.8Hz), 10.76(1H, br s)

MS: 382(M+H)

 $[\alpha]_{D^{24}} = +62.2 \circ (c \ 1.00, \ H_2O)$

Example 6: Synthesis of (S)-2-(2-(4-chlorophenyl)piperazin-4-yl)-3-methyl-6-(4pyridyl)-pyrimidin-4-one (No. XA373)

(S)-isomer was prepared same as above by using (R)-2-methyl-CBSoxazaborolidine instead of (S)-2-methyl-CBS-oxazaborolidine. ¹H NMR (DMSO-d₆) δ : 3.40 (3H, m), 3.45 (3H, s), 3.53-3.96 (3H, m), 4.68 (1H, t, J = 13.5Hz), 7.10 (1H, s), 7.60 (2H, d, J=8.3Hz), 7.76 (2H, d, J=8.3Hz), 8.38 (1H, br s), 8.91 (1H, d, J=4.8Hz), 9.88 (1H, br s), 10.31 (1H, br s)MS: 382(M+H)

 $[\alpha]_{D^{24}} = -63.3 \circ (c \ 1.00, \ H_2O)$

Example 7: Synthesis of 2-(2-(4-fluoro-2-methoxyphenyl)piperazin-4-yl)-3-methyl-6-(4-pyrimidyl)-pyrimidin-4-one (No. YA0366)

Asolution of 2-bromo-5-fluoroanisole (11.8 g, 57.6 mmol) in tetrahydrofuran (60 ml) was dropped into the magnesium (1.40 g, 57.6 mmol) in refluxed tetrahydrofuran (32 ml) containing small amount of 1,2-dibromoethane and refluxed for 15 min. After addition of tetrahydrofuran (50 ml), the solution was cooled to -78 °C and diethyl oxalate (7.41 g, 50.7 mmol) in diethyl ether (50 ml) was dropped into the solution. After stirring at the same temperature for 30 min, the solution was warmed to -10 °C and 1N aqueous hydrogen chloride (50 ml) and water were added. Organic layer was extracted with diethyl ether, washed with brine and dried over magnesium sulfate. After removal of the solvent under reduced pressure, purification of the residue by silica gel column chromatography (eluent: hexane/ethyl acetate = 5/2) gave ethyl 2-(4-fluoro-2-methoxyphenyl)-2-oxoacetate (6.80g, 59%)

¹H-NMR (CDCl₃) δ : 1.40(3H, t, J=7.1 Hz),3.87(3H, s), 4.89(2H, q, J=7.1Hz), 6.68(1H, d, J=10.5 Hz), 6.77-6.81(1H, m), 7.91-7.95(1H, m).

Ethylenediamine (0.60 g, 10.0 mmol) was added to a solution of ethyl 2-(4-fluoro-2-methoxyphenyl)-2-oxoacetate (2.26 g, 10.0 mmol) in ethanol(30 ml) and refluxed 4 hr. After removal of the solvent under reduced pressure, residue was washed with ethanol-diethyl ether to give 5,6-dihydro-3-(4-fluoro-2-methoxyphenyl)pyrazinone (1.76 g, 79%).

¹H-NMR (CDCl₃) δ : 3.50-3.56 (2H, m), 3.81 (3H, s), 3.88-3.92 (2H, m), 6.65(1H, d, J=11.0 Hz), 6.70-6.76 (1H, m), 6.89(1H, bs), 7.36-7.40(1H, m).

5,6-Dihydro-3-(4-fluoro-2-methoxyphenyl)pyrazinone was added to the solution of lithium aluminium hydride (0.46 g, 12 mmol) in diethyl ether (25 ml) and refluxed for 6 hr. Water (0.48 ml), 15% sodium hydroxide solution (0.48 ml) and again water (1.21 ml) were added to the ice-cooled solution and the precipitate was

filtered and washed with dichloromethane. Combined organic layer was evaporated to give 2-(4-fluoro-2-methoxyphenyl)piperazine (0.83 g, 99%).

 $^{1}\text{H-NMR (CDCl}_{3}) \ \delta: 2.02(2\text{H, s}), 2.57\text{-}2.63 \ (1\text{H, m}), 2.80\text{-}2.89 \ (1\text{H, m}), 2.92\text{-}2.99 \ (2\text{H, m}), \\ 3.06\text{-}3.12 \ (2\text{H, m}), 3.80(3\text{H, s}), 4.06 \ (1\text{H, d, J=}10.0 \ \text{Hz}), 6.56\text{-}6.65 \ (2\text{H, m}), 7.40 \\ (1\text{H, t, J=}7.8 \ \text{Hz}).$

2-Chloro-3-methyl-6-(4-pyrimidyl)-pyrimidin-4-one (223 mg, 1.0 mmol) was added to an ice-cooled solution of 2-(4-fluoro-2-methoxyphenyl)piperazine (210 mg, 1.0 mmol), triethylamine (0.15 ml, 1.1 mmol) in N,N-dimethylformamide (10 ml) and stirred at that temperature for 0.5 hr and then at room temperature for 3 hours. Reaction was quenched by ice-water and the filtrate was washed with water and dried to give 2-(2-(4-fluoro-2-methoxyphenyl)piperazin-4-yl)-3-methyl-6-(4-pyrimidyl)-pyrimidin-4-one (262 mg, 66%).

¹H-NMR (CDCl₃) δ : 2.89-2.98 (1H, m), 3.22-3.31 (3H, m), 3.60 (3H, s), 3.62-3.71 (2H, m), 3.86 (3H, s), 4.39-4.44 (1H, m), 6.43-6.73 (2H, m), 7.33 (1H, s), 7.52-7.56 (1H, m), 8.19 (1H, d, J=5.1 Hz), 8.87 (1H, d, J=5.2 Hz), 9.28 (1H, d, J=1.2 Hz).

4N Hydrogen chloride in 1,4-dioxane (0.2 ml) was added to the solution of 2-(2-(4-fluoro-2-methoxyphenyl)piperazin-4-yl)-3-methyl-6-(4-pyrimidyl)-pyrimidi n-4-one (238 mg, 0.6 mmol) in dichloromethane (5 ml) and stirred for 15 min. Wash with methanol and ethyl acetate after removal of the solvent and dryness gave the title compound (223 mg, 86%).

Example 8: Synthesis of 2-(2-(4-chlorophenyl)-piperazine-4-yl)-3-methyl-6-(4-pyrimidyl)pyrimidin-4-one (No. YA0269)

Dimethyl sulfoxide (60 ml) solution of 4-chlorophenacylbromide (11.11 g, 65.9 mmol) and water (1.7 ml) were stirred. The solution was extracted with ethyl acetate 3 times and washed with water twice and brine and then dried over sodium sulfate. After removal of the solvent, the residue was washed with hexane-ethyl acetate and dried to give 4-chlorophenylglyoxal (4.43 g, 50%).

¹H-NMR (CDCl₃) δ : 4.02-4.16(2H, m), 5.90-5.95(1H, m), 7.45-7.53(2H, m), 8.05-8.11(2H, m).

A methanol (10 ml) solution of ethylenediamine (1.90 g, 31.6 mmol) was added to the ice-cooled solution of 4-chlorophenylglyozal (4.43 g, 26.3 mmol) in methanol (100 ml) and tetrahydrofuran (30 ml) and stirred for 10 min. After addition of sodium tetrahydroborate (3.26 g, 86.3 mmol), additional methanol (50 ml) was added and stirred overnight. After removal of the solvent, diluted hydrochloric acid was added and extracted with ether twice. After addition of sodium hydroxide, basic aqueous layer was extracted with dichloromethane three times and washed with brine and dried over sodium sulfate. After removal of the solvent by filtration, purification of the residue by silica gel column chromatography (eluent; dichloromethane/ethanol = 10/1 to dichloromethane/ethanol/diethylamine = 20/2/1) to give 2-(4-chlorophenyl)-piperazine (0.43 g, 9%)

¹H-NMR (CDCl₃) δ: 2.67(1H, dd, J=10.5, 12.0 Hz), 2.87-3.03(4H, m), 3.07-3.13(1H, m), 3.77(1H, dd, J=2.7, 10.2 Hz), 7.27-7.36(4H, m).

Triethylamine (528 mg, 5.2 mmol) was added to a solution of 4-(chlorophenyl)piperazine (216 mg, 1.1 mmol) and 2-chloro-3-methyl-6-(4-pyrimidyl)pyrimidin-4-one and stirred at 50°C for 2 hr. Solvent was removed under reduced pressure, and 1N aqueous sodium hydroxide solution was added to the residue and extracted by dichloromethane. After washing with brine and dryness by sodium sulfate, solvent was removed under reduced pressure, and the residue was purified using ISOLUTE(registered trade mark) SI (International Sorvent Technology, UK)(eluent; dichloromethane/ethanol = 10/1) to give the title compound (396 mg, 95 %).

Example 9: Synthesis of 2-(2-(4-chlorophenyl)-6,6-dimethyl-piperazin-4-yl)-3-methyl-6-pyridin-4-yl-3*H*-pyrimidin-4-one dihydrochloride (No. XA1986)

A solution of 4'-chloro-2-bromoacetophenone (25.0 g, 107 mmol), water (1.92 mL, 107 mmol) and 47% hydrobromic acid (0.20 mL) in dimethylsulfoxide (160 mL) was stirred at 80°C for 5 h. After the reaction mixture was poured into water, the precipitate was filtered, washed with diethylether and dried, affording 4'-chloro-2,2-dihydroxyacetophenone (14.0 g, 70%). ¹H NMR (300MHz, CDCl₃), 8 5.92(1H, s), 7.45-7.52(2H, m), 8.05 –8.20(2H, m).

2,2-dimethly-ethylenediamine (2.10 mL, 20.0 mmol) was added to a solution of 4'-chloro-2,2-dihydroxyacetophenone (3.70 g, 20.0 mmol) in methanol (120 mL) and tetrahydrofuran (30 mL) at room temperature. After 2 h, sodium borohydride (1.50 g, 40.0 mmol) was added to the reaction mixture at 0 $^{\circ}$ C. The reaction mixture was stirred overnight, then quenched with 1N hydrochloric acid and evaporated in vacuo. The acidic solution was extracted with ethyl acetate, then basified to pH 11 using 15% aqueous sodium hydroxide, and extracted with dichloromethane. The extract was dried over sodium sulfate and concentrated in vacuo. Di-t-butyldicarbonate (6.40 mL, 27.9 mmol) was added to the solution of the residue in 1N aqueous sodium hydroxide (40 mL) and tetrahydrofuran (60 mL). The resulting suspension was heated at 40 $^{\circ}$ C for 8 h, then diluted with ethyl acetate and water. The organic layer was extracted with additional ethyl acetate, dried and concentrated in vacuo. The crude product was purified by flash column chromatography, affording 2-(4-chlorophenyl)-4-t-butoxycarbonyl-6,6-dimethylpiperazine (1.69 g, 28%, 2 steps). ¹H NMR (300MHz, CDCl₃), δ 1.15(3H, s), 1.21(3H, s), 2.47-2.70(2H, m), 3.72-4.16(3H, m), 7.26-7.37(4H, m).

4 M Hydrogen chloride in ethyl acetate (5.0 mL, 20.0 mmol) was added to a solution of 2-(4-chlorophenyl)-4-t-butoxycarbonyl-6,6-dimethyl-piperazine (1.69 g, 5.2 mmol). After 12 h, removing the solvent, filtrating and washing the precipitate with ethyl acetate gave 2-(4-chlorophenyl)-6,6-dimethyl-piperazine dihydrochloride

 $(1.43 \text{ g}, 95\%). \ ^{1}\text{H} \cdot \text{NMR} \ (300 \text{MHz}, \text{DMSO-d}_{6}), \\ \delta \ 1.40 \ (3\text{H}, \text{s}), \ 1.58 \ (3\text{H}, \text{s}), \ 3.24 - 3.99 \ (4\text{H}, \text{m}), \ 4.73 \ (1\text{H}, \text{m}), \ 7.69 \ (2\text{H}, \text{d}, \text{J} = 8.4 \text{Hz}), \ 7.79 \ (2\text{H}, \text{m}), \ 9.99 - 10.12 \ (2\text{H}, \text{m}).$

A solution of 2-(4-chlorophenyl)-6,6-dimethyl-piperazine hydrochloride (155 mg, 0.52 mmol), 2-chloro-3-methyl-6-(4-pyridyl)-pyrimidine-4-one (111 mg, 0.50 mmol) and triethylamine (0.42 mL, 2.50 mmol) in tetrahydrofuran (5 mL) was stirred at room temperature for 6 h. The whole was evaporated in vacuo and the residue was extracted with dichloromethane. The organic layer was washed with water, dried and concentrated in vacuo. The residue was dissolved in methanol (5mL) and treated with 4M hydrogen chloride in ethyl acetate (0.50 mL, 2.0 mmol) for 20 min. After removing the solvent, filtrating and washing the precipitate with ethanol gave 2-(2-(4-chlorophenyl)-6,6-dimethyl-piperazin-4-yl)-3-methyl-6-pyridin-4-yl-3H-pyrimidin-4-one dihydrochloride (235 mg, 97%).

Example 10: Synthesis of 2-(2S-(4-bromophenyl)-piperazin-1-yl)-3-methyl-6-pyridin-4-yl-3H-pyrimidin-4-one (No. XA2051)

Benzyl chloroformate (2.40 mL, 15.0 mmol) was added to a solution of 2S-(4-bromophenyl)-piperazine dihydrochloride in 1N aqueous sodium hydroxide (30 mL) and dichloromethane (60 mL). The resulting suspension was stirred at room temperature for 1.5 h. After partitioned between ethyl acetate, the organic layer was extracted with additional ethyl acetate, dried and concentrated in vacuo. The precipitate was washed with ether, affording 2S-(4-bromophenyl)-4-benzyloxycarbonyl-piperazine (2.92 g, 57%). ¹H NMR (300MHz, CDCl₃), δ 2.87-3.01(2H, m), 3.47(2H, m), 3.93-3.97(1H, m), 4.20(2H, m), 5.16(2H, s), 7.36(5H, m), 7.42-7.61(4H, m).

A solution of 2S-(4-bromophenyl)-4-benzyloxycarbonyl-piperazine (788 mg, 2.10 mmol), 2-chloro-3-methyl-6-(4-pyridyl)-pyrimidine-4-one (444 mg, 2.00 mmol) and diisopropylethylamine (0.70 mL, 4.00 mmol) in dimethylformamide (20 mL) was stirred at 80℃ for 3 h. The reaction mixture was poured into water and the

whole was extracted with ethyl acetate. The organic layer was washed with brine, dried and concentrated in vacuo. Chromatographic purification of the residue provided 2-(2S-(4-bromophenyl)-4-benzyloxycarbonyl-piperazin-1-yl)}-3-methyl-6-pyridin-4-yl-3H-pyrimidin-4-one (601 mg, 54%). ¹H NMR (300MHz, CDCl₃), δ 3.05(1H, m), 3.30-3.48(3H, m), 3.64(3H, s), 4.08-4.22(2H, m), 4.68(1H, m), 5.15(1H, d, J= 12.3 Hz), 5.21(1H, d, J= 12.6 Hz), 6.63(1H, s), 7.21(2H, d, J= 8.4 Hz), 7.28-7.39(7H, m), 7.59(2H, d, J=6.3 Hz), 8.68(2H, d, J=6.3 Hz).

Potassium hydroxide (168 mg, 3.0 mmol) was added to a solution of 2-{2S-(4-bromophenyl)-4-benzyloxycarbonyl-piperazin-1-yl}-3-methyl-6-pyridin-4-y l-3H-pyrimidin-4-one in ethanol (2.0 mL). After stirring for 8 h at room temperature, purifying by preparative HPLC gave 2-(2S-(4-bromophenyl)-piperazin-1-yl)-3-methyl-6-pyridin-4-yl-3H-pyrimidin-4-one (40 mg, 26%).

Example 11: Synthesis of (S)-3-methyl-6-(4-pyridyl)-2-(3-(4-(3-(pyrrolidin-1-yl) pyrrolidin-1-yl)phenyl)piperazin-1-yl)pyrimidin-4-one (No. XA2032)

A suspension of (S)-2-(4-bromophenyl)-1,4-di(t-butoxycarbonyl) piperazine (1.33 g, 3.00 mmol), (R)-3-pyrrolidinol (520 mg, 4.20 mmol), palladium acetate (27 mg, 0.12 mmol), 2-(di-t-butylphosphino)biphenyl (72 mg, 0.24 mmol), and sodium t-butoxide (808 mg, 8.41 mmol) in tert-butanol (20 mL) was heated at 90 °C for 3.5 h. After dilution with ethyl acetate, the resulting mixture was passed through a Celite column. The filtrate was concentrated in vacuo, and the residue was purified by silica gel column chromatography eluting 10-50% ethyl acetate - hexane to afford (S)-1,4-di-(t-butoxycarbonyl)-2-(4-((R)-3-hydroxypyrrolidino) phenyl)piperazine (733 mg, 54.5%) as a yellow foam.

To a solution of (S)-1,4-di(t-butoxycarbonyl)-2-(4-((R)-3-hydroxy pyrrolidino) phenyl)piperazine (733 mg, 1.64 mmol) and triethylamine (0.34 mL, 2.46 mmol) in dichloromethane (20 mL) was added methanesulfonyl chloride (0.152 mL, 1.97 mmol) at 0 °C. After stirring for 20 min, the reaction mixture was

partitioned between ethyl acetate and water. The organic layer was washed with brine, dried over anhydrous sodium sulfate, and concentrated in vacuo to afford (S)-1,4-di(t-butoxycarbonyl)-2-(4-((R)-3-(methansulfonyloxy)pyrrolidin-1-yl) phenyl)piperazine (877 mg, quant.) as a brown solid.

To a solution of (S)-1,4-di(t-butoxycarbonyl)-2-(4-((R)-3-methansulfonyloxy-pyrrolidino)phenyl)piperazine (877 mg, 1.64 mmol) in toluene (10 mL) was added pyrrolidine (0.64 mL, 8.19 mmol), and the resulting solution was heated at 90 °C for 8 h. After checking consumption of the starting material with TLC, the reaction mixture was partitioned between ethyl acetate and saturated sodium bicarbonate aqueous solution. The organic layer was washed with brine, dried over anhydrous sodium sulfate, and concentrated in vacuo. The residue was purified by silica gel column chromatography eluting 30-100% ethyl acetate-hexane and then 3-10% methanol-ethyl acetate to afford (S)-1,4-di(t-butoxycarbonyl)-2-(4-((S)-3-(pyrrolidin-1-yl)pyrrolidin-1-yl) phenyl)piperazine (479 mg, 58%) as a pale yellow powder.

To a solution of (S)-1,4-di(t-butoxycarbonyl)-2-(4-((S)-3-(pyrrolidin-1-yl) pyrrolidin-1-yl)phenyl)piperazine (479 mg, 0.957 mmol) in dichloromethane (4 mL) was added 4 N hydrogen chloride in ethyl acetate (4 mL) at room temperature. After stirring for 3 h, the resulting precipitate was collected and dried in vacuo to afford (S)-2-(4-((S)-3-(pyrrolidin-1-yl)pyrrolidin-1-yl)phenyl)piperazine tetrahydrochloride (370 mg, 87%) as a white solid.

To a suspension of (S)-2-(4-((S)-3-(pyrrolidin-1-yl)pyrrolidin-1-yl)phenyl) piperazine tetrahydrochloride (98 mg, 0.22 mmol) in tetrahydrofuran (5 mL) was added triethylamine (0.20 mL, 1.40 mmol) and 2-chloro-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one (44 mg, 0.20 mmol) at room temperature. After stirring for 24 h, the reaction mixture was concentrated in vacuo. The residue was dissolved in dichloromethane and sodium bicarbonate aqueous solution, and the solution was passed through CHEM ELUT CE1010 (manufactured by VARIAN). The filtrate was

concentrated, and the resulting crystals were washed in a mixture of diisopropyl ether and ethanol to afford (S)-2-(3-(4-(3-(pyrrolidin-1-yl)pyrrolidin-1-yl)phenyl)piperazin-1-yl)-3- methyl-6-(4-pyridyl)pyrimidin-4-one (80 mg, 82%) as a pale yellow solid.

Example 12: Synthesis of (S)-3-methyl-6-(4-pyrimidinyl)-2-(3-(4-(3-(pyrrolidin-1-yl) pyrrolidin-1-yl)phenyl)piperazin-1-yl)pyrimidin-4-one (No. YA1577)

To a suspension of (S)-2-(4-((S)-3-(pyrrolidin-1-yl)pyrrolidin-1-yl)phenyl) piperazine tetrahydrochloride (99 mg, 0.22 mmol) in tetrahydrofuran (5 mL) was added triethylamine (0.20 mL, 1.40 mmol) and 2-chloro-3-methyl-6-(4-pyrimidinyl)-3H-pyrimidin-4-one (45 mg, 0.20 mmol) at room temperature. After stirring for 24 h, the reaction mixture was concentrated in vacuo. The residue was dissolved in dichloromethane and sodium bicarbonate aqueous solution, and the solution was passed through CHEM ELUT CE1010 (manufactured by VARIAN). The filtrate was concentrated, and the resulting crystals were washed in a mixture of diisopropyl ether and ethanol to afford (S)-3-methyl-6-(4-pyrimidinyl)-2-(3-(4-(3-(pyrrolidin-1-yl)pyrrolidin-1-yl)phenyl)piperazin-1-yl)-pyrimidin-4-one (65 mg, 66%) as a pale yellow solid.

Example 13: Synthesis of (S)-2-(3-(4-(N-cyclohexyl-N-methylamino)phenyl) piperazin-1-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one (No. XA1999)

A suspension of (S)-2-(4-bromophenyl)-1,4-di(t-butoxycarbonyl) piperazine (1.21 g, 2.75 mmol), N-methylcyclohexylamine (0.43 mL, 3.30 mmol), palladium acetate(25 mg, 0.11 mmol), 2-(di-t-butylphosphino)biphenyl (66 mg, 0.22 mmol), and sodium t-butoxide (370 mg, 3.85 mmol) in t-butanol (15 mL) was heated at 80 °C for 8 h. The resulting solution was partitioned between ethyl acetate and water. The organic layer was washed with brine, dried over anhydrous sodium sulfate, and concentrated in vacuo. The residue was purified by silica gel column

chromatography eluting 10-15% ethyl acetate-hexane to afford (S)-1,4-di(t-butoxycarbonyl)-2-(4-(N-cyclohexyl-N-methylamino)phenyl)piperazine (917 mg) as white crystals.

To a solution of (S)-1,4-di(t-butozycarbonyl)-2-(4-(N-cyclohezyl-N-methylamino)phenyl)piperazine in dichloromethane (4 mL) was added 4 N hydrogen chloride in ethyl acetate(4 mL). After stirring for 40 min, the white precipitate was collected, which included impurities. The mixture was purified by a reverse phase chromatography eluting 0.05% TFA in water-acetonitrile to afford (S)-2-(4-(N-cyclohexyl-N-methylamino)phenyl)piperazine (59 mg 8% in 2 steps) as a clear oil.

To a solution of (S)-2-(4-(N-cyclohexyl-N-methylamino)phenyl) piperazine(50 mg, 0.183 mmol) and triethylamine (0.077 mL, 0.55 mmol) was added 2-chloro-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one (37 mg, 0.17 mmol) at room temperature. After stirring for 4.5 h, the reaction mixture was concentrated in vacuo. The residue was partitioned between dichloromethane and saturated sodium bicarbonate aqueous solution. The organic layer was dried over anhydrous sodium sulfate and concentrated. The residue was purified by a reverse phase chromatography eluting 0.05% TFA in water-acetonitrile to afford (S)-2-(3-(4-(N-cyclohexyl-N-methylamino)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyr idyl)pyrimidin-4-one (67 mg, 88%) as a oil, which was dissolved in ethyl acetate and treated with 4 N hydrogen chloride in ethyl acetate to yield its trihydrochloride.

Example 14: Synthesis of (S)-2-(3-(4-(N,N-dimethylamino)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one trihydrochloride (No. XA2017)

A suspension of (S)-2-(4-bromophenyl)-1,4-di(t-butoxycarbonyl) piperazine (1.14 g, 2.59 mmol), N,N-dimethylamine hydrochloride (422 mg, 5.17 mmol), palladium acetate (23 mg, 0.10 mmol), 2-(di-t-butylphosphino)biphenyl(62 mg, 0.21 mmol), and sodium t-butoxide (845 mg, 8.80 mmol) in t-butanol (15 mL)

was heated at 90 °C for 3 h. After dilution with ethyl acetate, the resulting solution was passed through a Celite column. The filtrate was concentrated, and the residue was purified by silica gel column chromatography eluting 10-20% ethyl acetate-hexane to afford (S)-1,4-di(t-butoxycarbonyl)-2-(4-(N,N-dimethylamino) phenyl)piperazine (556 mg, 53%) as white crystals.

To a solution of (S)-1,4-di(t-butoxycarbonyl)-2-(4-(N,N-dimethylamino) phenyl)piperazine (556 mg, 1.37 mmol) in dichloromethane (4 mL) was added 4 N hydrogen chloride in ethyl acetate (4 mL). After stirring for 8.5 h, the white precipitate was collected and dried in vacuo to afford (S)-2-(4-(N,N-dimethylamino) phenyl)piperazine trihydrochloride (413 mg, 96%) as white crystals.

To a suspension of (S)-2-(4-(N,N-dimethylamino)phenyl)piperazine trihydrochloride(115 mg, 0.365 mmol) in tetrahydrofuran (5 mL) was added triethylamine (0.28 mL, 2.0 mmol) and then 2-chloro-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one (74 mg, 0.33 mmol) at room temperature. After stirring for 10 h, the resulting mixture was concentrated in vacuo. The residue was dissolved in dichloromethane and saturated sodium bicarbonate aqueous solution, and the solution was passed through CHEM ELUT CE1010 (manufactured by VARIAN). The filtrate was concentrated in vacuo to yield crystals, which were washed with disopropyl ether. After the crystals were dissolved in ethyl acetate, the solution was treated with 4 N hydrogen chloride in ethyl acetate. White precipitate was collected and dried in vacuo to afford (S)-2-(3-(4-(N,N-dimethylamino)phenyl) piperazin-1-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one trihydrochloride (135 mg, 81%).

Example 15: Synthesis of (S)-2-(3-(4-methoxybiphen-4-yl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one (No. XA1991)

A mixture of (S)-2-(4-bromophenyl)-1,4-di(t-butoxycarbonyl)piperazine (1.82 g, 4.11 mmol), 4-methoxyphenylboronic acid (937 mg, 6.17 mmol), sodium

carbonate (2.18 g, 20.6 mmol), and tetrakis(triphenylphosphine)palladium(0) (238 mg, 0.206 mmol) was dissolved in dimethoxyethane (20 mL) and water (20 mL), and the resulting solution was refluxed for 3 h. After cooling to room temperature, the mixture was partitioned between ethyl acetate and water. The organic layer was washed with brine, dried over anhydrous sodium sulfate, and concentrated in vacuo. The resulting solid was washed with ethyl acetate to afford (S)-1,4-di(t-butoxycarbonyl)-2-(4'-methoxybiphen-4-yl) piperazine (1.46 g, 75.9%) as a white solid.

To a solution of (S)-1,4-di(t-butoxycarbonyl)-2-(4'-methoxybiphen-4-yl)-piperazine (1.46 g, 3.12 mmol) in dichloromethane (8 mL) was added 4 N hydrogen chloride in ethyl acetate (8 mL) at room temperature. After stirring for 1 h, the precipitate was collected and dried in vacuo to afford (S)-2-(4'-methoxybiphen-4-yl) piperazine dihydrochloride (1.00 g, 94%) as white solid.

To a suspension of (S)-2-(4'-methoxybiphen-4-yl)-piperazine dihydrochloride (237 mg, 0.694 mmol) in tetrahydrofuran (5 mL) was added triethylamine (0.40 mL, 2.9 mmol) and then 2-chloro-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one (128 mg, 0.579 mmol) at room temperature. After stirring for 28 h, the resulting mixture was concentrated in vacuo. The residue was partitioned between dichloromethane and saturated sodium bicarbonate aqueous solution, and the organic layer was dried over anhydrous sodium sulfate and then concentrated in vacuo. The resulting solid was washed with hot ethanol to afford (S)-2-(3-(4-methoxybiphen-4-yl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one (252 mg, 96%), which was treated with 4 N hydrogen chloride in ethyl acetate to yield its dihydrochloride salt (252 mg) as pale yellow crystals.

Example 16: Synthesis of (S)-2-(3-benzylpiperazin-1-yl)-3-methyl-6-(4-pyridyl) pyrimidin-4-one (No. XA2004)

To a solution of L-phenylalanine ethyl ester hydrochloride (3.875 g, 16.87

mmol), Boc-glycine (2.815 g, 16.07 mmol) in dichloromethane (100 mL) was added triethylamine (2.35 mL, 16.87 mmol) and then 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride (3.23 g, 16.87 mmol) at room temperature. After the resulting mixture was stirred for 2.5 h, it was partitioned between ethyl acetate and water. The organic layer was washed with 1 N hydrochloric acid, brine, and then saturated sodium bicarbonate aqueous solution, dried over anhydrous sodium sulfate, and concentrated in vacuo to afford Boc-glyclylphenylalanine ethyl ester (5.96 g).

To a solution of Boc-glycylphenylalanine ethyl ester (5.96 g) in dichloromethane (20 ml) was added trifluoroacetic acid (20 mL) at room temperature. After stirring 1.5 h, the resulting solution was concentrated in vacuo. The residue was dissolved in water, into which sodium bicarbonate was added until the pH was 9. After the solution was stirred for several hours, the resulting white crystals were collected and dried in vacuo to afford (S)-3-benzyl-2,5-dioxopiperazine (2.29 g, 70% in 2 steps) as a white powder.

To a suspension of (S)-3-benzyl-2,5-dioxopiperazine (2.284 g, 11.18 mmol) in tetrahydrofuran (20 mL) was added borane-tetrahydrofuran complex (49 mL, 1.0 M solution in THF, 49 mmol) at room temperature. The resulting mixture was refluxed for several hours before it was quenched with methanol at 0 °C. After concentration in vacuo, the residue was treated with 10% sodium hydroxide aqueous solution, which was extracted with dichloromethane thoroughly. The organic layer was washed with water, dried over anhydrous sodium sulfate, and concentrated in vacuo to afford white crystals, which were washed with ether to yield (S)-2-benzylpiperazine (795 mg, 40.3%).

To a solution of (S)-2-benzylpiperazine (48 mg, 0.27 mmol) in tetrahydrofuran (5 mL) was added triethylamine (0.10 mL, 0.74 mmol) and then 2-chloro-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one (55 mg, 0.248 mmol) at room temperature. After refluxing for 24 h, the resulting mixture was concentrated in

vacuo. The residue was partitioned between dichloromethane and saturated sodium bicarbonate aqueous solution, and the organic layer was dried over anhydrous sodium sulfate and then concentrated in vacuo. The residue was purified by a reverse phase chromatography eluting 0.05% TFA in water-acetonitrile to afford (S)-2-(3-benzylpiperazin-1-yl)-3-methyl-6-(4-pyridyl) pyrimidin-4-one (73 mg 81%), which was treated with 4 N hydrogen chloride in ethyl acetate to yield its dihydrochloride salt as a yellow powder.

Example 17: Synthesis of (S)-3-methyl-2-(3-(4-(1,2,4-oxadiazol-3-yl)phenyl) piperazin-1-yl)-6-(4-pyridyl)pyrimidin-4-one (No. XA2039)

To a solution of 4-cyanoacetophenone (11.32 g, 77.98 mmol) in dichloromethane (200 mL) was added bromine (4.00 mL, 78.0 mmol) dropwise at room temperature. After stirring several minutes, the reaction mixture was washed with water, dried over anhydrous sodium sulfate, and concentrated in vacuo to afford 4-cyanophenacyl bromide (17.73 g) as a white solid.

A solution of 4-cyanophenacyl bromide (11.20 g, 49.99 mmol) in dimethylsulfoxide (83 mL) was treated with water (0.90 mL, 49.99 mmol). After stirring for 24 h at room temperature, it was poured into ice-water, and extracted with ether. The organic layer was washed with water and then brine, dried over anhydrous sodium sulfate, and concentrated in vacuo. The residue was purified by a silica gel column chromatography eluting 20-50% ethyl acetate in hexane to afford 4-cyanophenylglyoxal (5.10 g, 64.1%) as a yellow solid.

To a solution of 4-cyanophenylglyoxal (2.21 g, 12.5 mmol) in methanol (30 mL) and tetrahydrofuran (10 mL) was added ethylenediamine (1.00 mL, 14.96 mmol) at room temperature. After the mixture was stirred at room temperature for 1 h, sodium borohydride (943 mg, 24.92 mmol) was added at 0 °C. The solution was warmed up to room temperature and stirred for another 2 h before it was quenched with 1 N hydrochloric acid. After concentration in vacuo, the mixture was

partitioned between ether and water. The aqueous layer was alkalized with sodium hydroxide, and extracted with dichloromethane. The extract was dried over anhydrous sodium sulfate, and then concentrated in vacuo to afford reddish oil (1.69 g). The oil was dissolved in dichloromethane (30 mL), into which triethylamine (3.82 mL, 27.41 mmol) and di-tert-butyl dicarbonate (5.98 g, 27.41 mmol) at room temperature. The reaction mixture was stirred for several hours before it was partitioned between ethyl acetate and water. The organic layer was dried over anhydrous sodium sulfate, and then concentrated in vacuo. The residue was purified by a silica gel column chromatography eluting 5-20% ethyl acetate in hexane to afford 1,4-di(t-butoxycarbonyl)-2-(4-cyanophenyl)piperazine (2.46 g, 50.9%) as white crystals.

A solution of 1,4-di(t-butoxycarbonyl)-2-(4-cyanophenyl)piperazine (558 mg, 1.44 mmol), hydroxylamine hydrochloride (300 mg, 4.23 mmol), and sodium carbonate (763 mg, 7.20 mmol) in ethanol (3 mL) and water (3 mL) was heated at 80 °C for 2.5 h before it was partitioned between dichloromethane and water. The aqueous layer was extracted with dichloromethane. The combined organic layer was dried over sodium sulfate, and concentrated in vacuo to afford white foam (680 mg), which was dissolved in toluene (5 mL) and treated with triethyl orthoformate (2.4 mL, 14.4 mmol) and p-toluenesulfonic acid (27 mg, 0.14 mmol). The solution was heated at 90 °C for 1 h before it was partitioned between dichloromethane and saturated sodium bicarbonate aqueous solution. The organic layer was dried over anhydrous sodium sulfate, and concentrated in vacuo. The resulting white crystals were washed with ethyl acetate, and dried in vacuo to afford 1,4-di(t-butoxycarbonyl)-2-(4-(1,2,4-oxadiazol-3-yl)phenyl)piperazine (464 mg, 75% in 2 steps).

To a solution of 1,4-di(t-butoxycarbonyl)-2-(4-(1,2,4-oxadiazol-3-yl) phenyl)piperazine (464 mg, 1.08 mmol) in dichloromethane (2 mL) was added 4 N hydrogen chloride in ethyl acetate (3 mL) at room temperature. After stirring for

1.5 h, the precipitate was collected and dried in vacuo to afford 2-(4-(1,2,4-oxadiazol-3-yl)phenyl)piperazine dihydrochloride (321 mg, 98%) as a white powder.

To a suspension of 2-(4-(1,2,4-oxadiazol-3-yl)phenyl)piperazine dihydrochloride (102 mg, 0.34 mmol) in tetrahydrofuran (6 mL) was added triethylamine (0.23 mL, 1.65 mmol) and then 2-chloro-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one (73 mg, 0.33 mmol) at room temperature. After stirring for 24 h, the resulting mixture was concentrated in vacuo. The residue was dissolved in dichloromethane and saturated sodium bicarbonate aqueous solution, and the solution was passed through CHEM ELUT CE1010 (manufactured by VARIAN). The filtrate was concentrated in vacuo to yield crystals, which were washed with diisopropyl ether and ethanol to afford (S)-2-(3-(4-(1,2,4-oxadiazol-3-yl)phenyl) piperazin-1-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one (102 mg 74%) as a white powder.

Example 18: Synthesis of 2-[4-(2-Methoxyphenylamino)-piperidin-1-yl]-3-methyl-6-(pyridin-4-yl)-3H-pyrimidin-4-one (No. XB276)

To a solution of anisidine (3.1g, 25.2 mmol) and 4-oxo-piperidine-1-carboxylic acid tert-butyl ester (5.0 g, 25.1 mmol) in methanol (100 mL) was added sodium triacetoxyborohydride (13.4 g, 63.2 mmol) at room temperature. After stirring for 6 h, the resulting suspension was partitioned between ethyl acetate and 1N sodium hydroxide. The aqueous layer was extracted with ethyl acetate. The combined organic layer was washed with brine, dried over magnesium sulfate, and concentrated in vacuo. The residue was purified by silica gel chromatography eluting 10-20 % ethyl acetate in hexane to furnish 4-(2-methoxyphenylamino)-piperidine-1-carboxylic acid tert-butyl ester (2.7g, 8.8mmol, 35%) as a pale yellow oil.

To a solution of 4-(2-methoxyphenylamino)-piperidine-1-carboxylic acid tert-butyl ester (2.7g, 8.8mmol) in methanol (30 mL) was added 4N hydrochloric

acid in ethyl acetate (20 mL) at room temperature. After stirring for 1h, the resulting suspension was concentrated in vacuo. The residue was partitioned between chloroform and 1N sodium hydroxide. The aqueous layer was extracted with chloroform. The combined organic layer was washed with brine, dried over magnesium sulfate, and concentrated in vacuo. The residue was purified by silica gel chromatography eluting 10-20% methanol in chloroform to furnish 4-(2-methoxyphenylamino)-piperidine (1.8 g, 8.7 mmol, 99%) as white crystals.

To a solution of 4-(2-methoxyphenylamino)-piperidine (0.8 g, 3.87 mmol) and triethylamine (1.3 g, 12.8 mmol) in tetrahydrofuran (20 mL) was added 2-chloro-3-methyl-6-(pyridin-4-yl)-3H-pyrimidin-4-one (0.8 g, 3.61 mmol) portionwise. After stirring for 12 h, the resulting suspension was partitioned between chloroform and 1N sodium hydroxide. The aqueous layer was extracted with chloroform. The combined organic layer was washed with brine, dried over magnesium sulfate, and concentrated *in vacuo*. The residue was purified by silica gel chromatography eluting 5-10% methanol in chloroform to furnish 2-(4-(2-methoxyphenylamino)-piperidin-1-yl)-3-methyl-6-(pyridin-4-yl)-3H-pyrimidin-4-one (1.2 g, 3.07 mmol, 85%) as white crystals.

Example 19: Synthesis of 3-Methyl-2-(3-(4-(4-methylpiperazin-1-yl)-phenyl)-piperidin-1-yl)-6-(pyridin-4-yl)-3H-pyrimidin-4-one (No. XB278)

A solution of (4-bromo-phenyl)-acetic acid ethyl ester (2.31 g, 9.50 mmol) in dimethylsulfoxide (6 mL) was added to the suspension of sodium hydride (407 mg, 60% in oil, 10.17 mmol) and stirred 3 min. A solution of (3-bromo-propyl)-carbamic acid tert-butyl ester (2.03 g, 8.52 mmol) in dimethylsulfoxide (6 mL) was added to the solution and stirred at 50 °C for 30 min. The resulting solution was partitioned between ethyl acetate and saturated aqueous ammonium chloride. The aqueous layer was extracted with ethyl acetate. The combined organic layer was washed with water and brine, dried by passing through Celite column, and concentrated in

vacuo. The residue was purified by silica gel chromatography eluting ethyl acetate / hexane (4/1 to 3/1, v/v) to afford 3-(4-Bromo-phenyl)-6-tert-butoxycarbonylamino-hexanoic acid ethyl ester (2.43 g. 74%).

To a solution of 3-(4-Bromo-phenyl)-6-tert-butozycarbonylamino-hexanoic acid ethyl ester (2.43 g, 6.32 mmol) in ethyl acetate (3 mL) was added 4 N hydrogen chloride in ethyl acetate (6 mL) at room temperature. Removal of the solvent in vacuo after stirring for 30 min afforded 6-Amino-3-(4-bromo-phenyl)-hexanoic acid ethyl ester hydrochloride that was used in the next step without further purification.

A solution of 6-amino-3-(4-bromo-phenyl)-hexanoic acid ethyl ester hydrochloride, potassium carbonate (1039 mg, 7.52 mmol) in ethanol (50 ml) was refluxed for 20 hr. Solvent was removed in vacuo after addition of dilute hydrochloric acid and water was added to the residue. Filtration, wash with water and dryness afforded 3-(4-Bromo-phenyl)-piperidin-2-one (1387 mg, 86%, 2 steps).

To an ice-cooled solution of 3-(4-bromo-phenyl)-piperidin-2-one (37.97 g, 149 mmol) in tetrahydrofuran (250 ml) was added borane-tetrahydrofuran complex (335 ml, 1.0 M solution in THF, 335 mmol). The solution was stirred overnight at room temperature, and then refluxed 1.5 hr after addition of 10% aqueous hydrochloric acid. Solvents was removed in vacuo, and the residue was partitioned between dichloromethane and 1N sodium hydroxide. The aqueous layer was extracted with dichlorometane. The combined organic layer was washed with water and brine, dried over sodium sulfate, and concentrated in vacuo. The residue was dissolved in water (100 mL) and concentrated hydrochloric acid (100 mL) and refluxed for 3 hr. Sodium hydroxide was added to the solution and the resulting solution was extracted with dichlorometane. The organic layer was washed with water and brine, dried over sodium sulfate Concentration in vacuo afforded 3-(4-bromo-phenyl)-piperidine (32 18 g, 90%).

To a suspension of 3-(4-bromophenyl)-piperidine (25.2 g, 105 mmol), and

triethylamine (13 g, 128 mmol) in tetrahydrofuran (250 mL) was added di-tert-butyl-dicarbonate (25.2 g, 105 mmol) at room temperature. After stirring for 1 h, the resulting suspension was partitioned between ethyl acetate and 1N sodium hydroxide. The aqueous layer was extracted with ethyl acetate. The combined organic layer was washed with brine, dried over magnesium sulfate, and concentrated in vacuo. The residue was washed by hexane to furnish 3-(4-bromophenyl)- piperidine-1-carboxylic acid tert-butyl ester (35.7 g, 105 mmol, 100%) as white crystals.

To a suspension of 3-(4-bromophenyl)-piperidine-1-carboxylic acid tert-butyl ester (3.0 g, 8.8 mmol), palladium acetate (80 mg, 0.36 mmol), 2-(di-t-butyl phosphino)biphenyl (210 mg, 0.70 mmol), and sodium t-butoxide (1.2 g, 125 mmol) in toluene (30 mL) was added N-methylpiperazine (1.3 g, 13.0 mmol) at room temperature. After heating at 90 °C for 5 h, the resulting suspension was passed through a Celite column. The filtrate was concentrated under reduced pressure, and the residue was purified by silica gel chromatography eluting 5-25% of ethyl acetate in hexane to afford 3-(4-(4-methylpiperazin-1-yl)-phenyl)-piperidine-1-carboxylic acid tert-butyl ester (2.0 g, 5.56 mmol, 63%) as white crystals.

To a solution of 3-(4-(4-methylpiperazin-1-yl)-phenyl)-piperidine-1-carboxylic acid tert-butyl ester (2.0 g, 5.56 mmol) in methanol (20 mL) was added 4N hydrochloric acid in ethyl acetate (20 mL) at room temperature. After stirring for 1h, the resulting suspension was concentrated *in vacuo*. The residue was washed with ethyl acetate to furnish 3-(4-(4-methylpiperazin-1-yl)-phenyl)-piperidine trihydrochloride (1.84 g, 4.99 mmol, 90%) as white crystals.

To a solution of 3-(4-(4-methylpiperazin-1-yl)-phenyl)-piperidine trihydrochloride salt (0.4 g, 1.08 mmol) and triethylamine (0.6 g, 5.93 mmol) in tetrahydrofuran (10 mL) was added 2-chloro-3-methyl-6-(pyridin-4-yl)-3H-pyrimidin-4-one (0.22 g, 0.99 mmol) portionwise. After stirring for 12 h, the

resulting suspension was partitioned between chloroform and 1N sodium hydroxide. The aqueous layer was extracted with chloroform. The combined organic layer was washed with brine, dried over magnesium sulfate, and concentrated *in vacuo*. The residue was purified by silica gel chromatography eluting 5-10% methanol in chloroform to furnish 3-methyl-2-(3-(4-(4-methylpiperazin-1-yl)-phenyl)-piperidin-1-yl)-6-(piridin-4-yl)-3H-pyrimidin-4-one (0.31 g, 0.70 mmol, 71%) as white crystals.

Example 20: Synthesis of 2-(3-(4-cyclohexylaminophenyl)-piperidin-1-yl)-3-methyl-6-(pyridin-4-yl)-3H-pyrimidin-4-one (No. XB301)

To a suspension of 3-(4-bromophenyl)-piperidine-1-carboxylic acid tert-butyl ester (8.0 g, 23.5 mmol), palladium acetate (210 mg, 0.94 mmol), 2-(di-t-butyl phosphino)biphenyl (560 mg, 1.88 mmol), and sodium t-butoxide (3.2 g, 33.3 mmol) in toluene (80 mL) was added cyclohexylamine (2.8 g, 28.2 mmol) at room temperature. After heating at 90 °C for 5 h, the resulting suspension was passed through a Celite column. The filtrate was concentrated under reduced pressure, and the residue was purified by silica gel chromatography eluting 5-25% of ethyl acetate in hexane to afford 3-(4-cyclohexylaminophenyl)-piperidine-1-carboxylic acid tert-butyl ester (6.74 g, 18.8 mmol, 80%) as white crystals.

To a solution of 3-(4-cyclohexylaminophenyl)-piperidine-1-carboxylic acid tert-butyl ester (6.74 g, 18.8 mmol) in methanol (50 mL) was added 4N hydrochloric acid in ethyl acetate (40 mL) at room temperature. After stirring for 1 h, the resulting suspension was concentrated *in vacuo*. The residue was washed with ethyl acetate to furnish 3-(4-cyclohexylaminophenyl)-piperidine dihydrochloride (5.84 g, 17.6 mmol, 94%) as white crystals.

To a solution of 3-(4-cyclohexylaminophenyl)-piperidine dihydrochloride salt (1.0 g, 3.02 mmol) and triethylamine (1.5 g, 14.8 mmol) in tetrahydrofuran (20

mL) was added 2-chloro-3-methyl-6-(pyridin-4-yl)-3H-pyrimidin-4-one (0.64 g, 2.89 mmol) portionwise. After stirring for 12 h, the resulting suspension was partitioned between chloroform and 1N sodium hydroxide. The aqueous layer was extracted with chloroform. The combined organic layer was washed with brine, dried over magnesium sulfate, and concentrated in vacuo. The residue was purified by silica gel chromatography eluting 5-10% methanol in chloroform to furnish 2-(3-(4-cyclohexylaminophenyl)-piperidin-1-yl)-3-methyl-6-(pyridin-4-yl)-3H-pyrimidin-4-one (1.23 g, 2.77 mmol, 96%) as white crystals.

Example 21: Synthesis of 2-(4-(4-Bromo-phenyl)-piperidin-1-yl)-3-methyl-6-pyridin-4-yl-3H-pyrimidin-4-one (No. XB267)

Mixture of 4-bromobenzaldehyde (22.40 g, 121.1 mmol), dimethyl malonate(19.37 g, 146.6 mmol), cat. acetic acid and cat. piperidine in toluene (100 ml) were refluxed for 6 h with azeotropically removal of water. Resulting solution was partitioned between ethyl acetate and water. The aqueous layer was extracted with ethyl acetate. The combined organic layer was washed with water, saturated aqueous sodium bicarbonate and brine, dried over sodium sulfate. Concentration of the organic solvent in vacuo afforded 2-(4-bromo-benzylidene)-malonic acid diethyl ester as an oil that was used in the next step without further purification.

To an ice-cooled solution of dimethyl malonate (19.35 g, 146.5 mmol) and sodium methoxide (30.12g in 28% methanol solution, 156.1 mmol) in methanol (300 ml) was added 2-(4-bromo-benzylidene)-malonic acid diethyl ester in methanol (50 ml). After stirring for 3 h, the solvent was removed in vacuo and the residue was partitioned between ethyl acetate and dilute hydrochloric acid. The aqueous layer was extracted with ethyl acetate. The combined organic layer was washed with brine, dried over sodium sulfate. Concentration of the organic solvent in vacuo afforded 3-(4-bromo-phenyl)-2,4-bis-ethoxycarbonyl-pentanedioic acid diethyl ester as an oil that was used in the next step without further purification.

A solution of 3-(4-bromo-phenyl)-2,4-bis-ethoxycarbonyl-pentanedioic acid diethyl ester in concentrated hydrochloric acid (100 ml) and acetic acid (100 ml) was refluxed for 8 h. Removal of the solvent in vacuo and recrystallization of the residue from acetonitrile yielded 3-(4-bromo-phenyl)-pentanedioic acid (22.84 g in 1st crop, 65%, 3.84 g in 2nd crop, 11.05% from 4-bromobenzaldehyde).

A solution 3-(4-bromo-phenyl)-pentanedioic acid (26.68 g, 92.9 mmol) in acetic anhydride (100 ml) was refluxed for 1.5 hr. Removal of the solvent in vacuo, and remaining solvent were azeotropically removed using toluene.

Teterahydrofuran (200 ml) and aqueous ammonia (28%, 50 ml) was added to the residue and stirred overnight. After removal of the solvent in vacuo, acetic anhydride (100 ml) was added and refluxed for 4 hr. After removal of the solvent in vacuo and succeeding azeotropic distillation with toluene, residue was partitioned between ethyl ether and water. Filtration of the suspension and dryness afforded the 4-(4-bromo-phenyl)-piperidine-2,6-dione (12.53 g, 50%) as a solid.

To an ice-cooled solution of lithium tetrahydroborate (4.13 g, 189.6 mmol) in tetrahydrofuran (200 ml) was added chlorotrimethylsilane (41.52 g, 382.2 mmol). After stirring 5 min, a solution of 4-(4-bromo-phenyl)-piperidine-2,6-dione (12.53 g, 46.7 mmol) was added and stirred overnight. The resulting solution was concentrated in vacuo after addition of 10% aqueous hydrochloric acid. The residue was dissolved in aqueous sodium hydroxide solution and methanol, and a solution of di-tert-butyl dicarbonate (11.45 g, 52.5 mmol) in methanol (10 ml) was added and stirred for 6 h. After removal of the solvent in vacuo, concentrated hydrochloric acid wad added and stirred overnight. After extraction of the solution by diethyl ether, sodium hydroxide was added to the aqueous layer to turn basic, and extracted with dichloromethane. The organic layer was washed with brine, dried over sodium sulfate. The residue of the diethyl ether and dichloromethane after removal of the solvents under reduced pressure was mixed and dissolved in tetrahydrofuran (200 ml). A solution of di-tert-butyl dicarbonate (7.45 g, 34.1 mmol) in tetrahydrofuran

(10 ml) and triethylamine were added and stirred overnight. The resulting solution was concentrated in vacuo. Purification of the residue by silica gel chromatography eluting hexane / ethyl acetate (5/1, v/v) furnished 4-(4-bromo-phenyl)-piperidine-1-carboxylic acid tert-butyl ester (14.4g, 91%) as a solid.

To a solution of furnished 4-(4-bromophenyl)-piperidine-1-carboxylic acid tert-butyl ester (1114 mg, 3.27 mmol) in ethyl acetate (1 mL) was added 4 N hydrogen chloride in ethyl acetate (2 mL) at room temperature. After stirring for 5 h, solvent was removed in vacuo, and the resulting solid was washed with ethyl acetate and dried in vacuo to afford (4-(4-bromophenyl)-piperidine hydrochloride (884 mg, 98%) as a white solid.

A solution of (4-(4-bromophenyl)-piperidine hydrochloride (279 mg, 1.01 mmol) and triethylamine (554 mg, 5.47 mmol), 2-chloro-3-methyl-6- (pyridin-4-yl)-3H-pyrimidin-4-one (206 mg, 0.929 mmol) in tetrahydrofuran (20 mL) was stirred for 3 hr. The resulting solution was diluted with tetrahydrofuran and filtrated. After removal of the solvents under reduced pressure and the purification of the resulting residue by CHEM ELUT CE1010 (manufactured by VARIAN) eluting dichloromethane / ethanol (15/1, v/v) and wash with ethyl acetate afforded 2-(4-(4-Bromophenyl)-piperidin-1-yl)-3-methyl-6-pyridin-4-yl-3H-pyrimidin-4-one (368 mg, 93%) as a solid.

Example 22: Synthesis of 3-Methyl-6-pyridin-4-yl-2-[4-(4-pyrrolidin-1-yl-phenyl)-piperidin-1-yl]-3H-pyrimidin-4-one (No. XB269)

A suspension of 4-(4-Bromophenyl)-piperidine-1-carboxylic acid tert-butyl ester (1.97 g, 5.79 mmol), palladium acetate (54 mg, 0.24 mmol), 2-(di-t-butylphosphino)biphenyl (154 mg, 0.52 mmol), and sodium t-butoxide (846 mg, 8.80 mmol), pyrrolidine (587 mg, 8.25 mmol) in toluene (80 mL) was heated at 90 °C for 3 h under nitrogen atmosphere. The resulting suspension was passed through a

Celite column and partitioned between ethyl acetate and water. The aqueous layer was extracted with ethyl acetate. The combined organic layer was washed with brine, dried over sodium sulfate, and concentrated in vacuo. Purification of the residue by HPLC afforded 4-(4-pyrrolidin-1-yl-phenyl)-piperidine-1-carboxylic acid tert-butyl ester as a solid that was used in the next step without further purification.

To a solution of furnished 4-(4-Pyrrolidin-1-yl-phenyl)-piperidine-1-carboxylic acid tert-butyl ester in ethyl acetate (5 mL) was added 4 N hydrogen chloride in ethyl acetate (10 mL) at room temperature. After stirring for 3 h, solvent was removed in vacuo, and the resulting solid was purified by HPLC. Sodium hydroxide was added to the resulting fractions and the aqueous layer was extracted by dichloromethane. Organic layer was washed with brine, and passed through Cerite. Removal of the solvent under reduced pressure afforded 4-(4-pyrrolidin-1-yl-phenyl)-piperidine (1.01 g, 76%).

A solution of 4-(4-pyrrolidin-1-yl-phenyl)-piperidine (215 mg, 0.933 mmol) and triethylamine (391 mg, 3.86 mmol), 2-chloro-3-methyl-6-(pyridin-4-yl)-3H-pyrimidin-4-one (187 mg, 0.844 mmol) in tetrahydrofuran (10 mL) was refluxed for 5 hr. The resulting solution was diluted with tetrahydrofuran and filtrated. After removal of the solvents under reduced pressure and the purification of the resulting residue by CHEM ELUT CE1010 (manufactured by VARIAN) eluting dichloromethane / ethanol (15/1, v/v) and wash with ethyl acetate afforded 3-methyl-6-pyridin-4-yl-2-(4-(4-pyrrolidin-1-yl-phenyl)-piperidin-1-yl)-3H-pyrimidin-4-one (284 mg, 81%) as a solid.

Example 23: Synthesis of 2-(4-(6-Fluorobenzo[b]thiophen-3-yl)piperidin-1-yl)-1-methyl-1H-[4,4']bipyrimidinyl-6-one (No. YB253)

The key intermediate 4-(6-fluorobenzo[b]thiophen-3-yl)piperidine hydrochloride of 2-[4-(6-fluorobenzo[b]thiophen-3-yl)piperidin-1-yl]-1-methyl- 1H-

[4,4']bipyrimidinyl-6-one was synthesized from 1-acetylpipridine-4-carboxylic acid which was prepared according to the method reported by Watanabe (*J. Heterocyclic Chem.*, 30, 445 (1993)).

To a solution of 1-benzoylpiperidine-4-carboxylic acid (66 g, 285 mmol) in dichloromethane (160 mL) was added thionyl chloride (26 mL, 388 mmol). After stirring at 60°C for 1 h, the mixture was added portionwise to a stirred suspension of 2,4-difluorobenzene (45 g, 397 mmol) and anhydrous aluminum chloride (88 g, 666 mmol) in dichloromethane (245 mL), and the reaction mixture was refluxed for 5 h. The reaction mixture was poured into a mixture of ice and concentrated hydrochloric acid and extracted with chloroform. The organic layer was dried over sodium sulfate and the solvent was evaporated under reduced pressure.

Recrystallization from hexane gave 1-benzoyl-4-(2,4-difluorobenzoyl)piperidine (46 g, 50%) as colorless crystals.

A solution of 1-benzoyl-4-(2,4-difluorobenzoyl)piperidine (40 g, 120 mmol), methyl thioglycolate (12 mL, 130 mmol) in dimethylformamide (500 mL) was stirred at room temperatute for 12h. The solvent was evaporated off in vacuo and the residue treated with water and ethyl acetate. The organic layer was dried over sodium sulfate and the solvent was evaporated under reduced pressure. The obtained residue was purified by silica gel column chromatography eluting hexane/ethyl acetate to give 3-(1-benzoylpiperidin-4-yl)-6-

fluorobenzo[b]thiophene-2 -carboxylic acid (11.8 g, 26%) as an oil.

3-(1-Benzoylpiperidin-4-yl)-6-fluorobenzo[b]thiophene-2-carboxylic acid (10 g, 26 mmol) was suspended in quinoline (100 mL) and cupper powder (0.5g) was added. After stirring at 200°C for 1 h, the mixture was cooled to room temperature and partitioned between ethyl acetate and water. The organic layer was dried over magnesium sulfate and evaporated. The obtained residue was purified by silica gel column chromatography eluting hexane/ethyl acetate to give (4-(6-fluorobenzo[b]thiophen-3-yl)piperidin-1-yl)phenylmethanone (5.0 g, 48%) as yellow

crystals.

A solution of (4-(6-fluorobenzo[b]thiophen-3-yl)piperidin-1-yl) phenylmethanone (6.5 g, 19 mmol) in acetic acid (100 mL) and concentrated hydrochloric acid (100 mL) was stirred at 90°C for 10 h. To a solution of reaction mixture was added ethyl acetate. The precipitated crystals were collected by filtration and washed with ethyl acetate to give 4-(6-fluorobenzo[b]thiophen-3-yl)piperidine hydrochloride (4.8 g, 89%) as yellow crystals.

To a solution of 4-(6-fluorobenzo[b]thiophen-3-yl)piperidine hydrochloride (200 mg, 0.74 mmol) and 2-chloro-1-methyl-1H-[4,4']bipyrimidinyl-6-one (160 mg, 0.70 mmol) in tetrahydrofuran (10 mL) was added triethylamine (212 mg, 2.1 mmol). The mixture was stirred at 90°C for 6 h. The solvent was evaporated off in vacuo and the residue was treated with water and chloroform. The organic layer was dried over sodium sulfate and the solvent was evaporated under reduced pressure. Recrystallization from ethyl acetate gave 2-[4-(6-fluorobenzo[b]thiophen-3-yl)piperidin-1-yl]-1-methyl-1H-[4,4']bipyrimidinyl-6-one (220 mg, 96%) as colorless crystals.

Example 24: Synthesis of 2-(4-(Biphenyl-2-yl)piperazin-1-yl)-1-methyl-1H-[4,4']bipyrimidinyl-6-one (No. YA1552)

To a solution of 1-biphenyl-2-yl-piperazine dihydrochloride (311 mg, 1.0 mmol) and 2-chloro-1-methyl-1H-[4,4']bipyrimidinyl-6-one (202 mg, 0.91 mmol) in tetrahydrofuran (20 mL) was added triethylamine (404 mg, 4.0 mmol). The mixture was stirred at 90°C for 4 h. The solvent was evaporated off in vacuo and the residue treated with water and chloroform. The organic layer was dried over sodium sulfate and the solvent was evaporated under reduced pressure. Recrystallization from ethyl acetate gave 2-[4-(biphenyl-2-yl)piperazin-1-yl]-

1-methyl-1H-[4,4']bipyrimidinyl-6-one (250 mg, 65%) as colorless crystals.

The compounds in the following table were prepared in the same manner as the methods described above. The compound numbers in the following table correspond to those shown in the above-described table of preferred compounds.

Table 5

NO	NMR	Exact-MS
XA19	2.51-2.89(4H, m), 3.31-3.34(4H, m), 3.39(3H,s), 3.56(2H, s), 6.80(1H, s), 7.25-7.31(1H, m), 7.31-7.36(4H, m), 7.98(2H, dd, J=1.5, 4.8 Hz), 8.68(2H, dd, J=1.5, 4.5 Hz)(DMSO-d6)	362
XA25	3.32-3.34(4H, m), 3.46(3H, s), 3.48-3.51(4H, m), 6.80-6.85(1H, m), 6.84(1H, s), 7.01(2H, d, J=8.0 Hz), 7.23-7.28(2H, m), 8.00(2H, dd, J=1.3, 4.6 Hz), 8.70(2H, dd, J=1.5, 4.5 Hz)(DMSO-d6)	348
XA156	3.47(3H,s), 3.51-3.60(4H, m), 3.62-3.71(4H, m), 6.85(1H, s), 7.41-7.49(1H, m), 7.56-7.61(1H, m), 8.02(2H, dd, J=1.5, 4.5 Hz), 8.09(1H, d, J=8.1 Hz), 8.16(1H, d, J=8.1 Hz), 8.70(2H, dd, J=1.5, 4.8 Hz)(DMSO-d6)	405
XA289	1.11-1.28(3H, m), 2.98-3.16(1H, m), 3.28-3.41(1H, m), 3.39(3H, s), 3.54-3.80(3H, m), 3.88-3.99(1H, m), 4.08-4.26(4H, m), 4.32-4.45(1H, m), 7.13(1H, s), 7.37-7.53(5H, m), 8.45(2H, d, J=5.8 Hz), 8.96(2H, d, J=6.0 Hz) (DMSO-d6)	434
XA361	3.44(3H,s), 3.54-3.95(6H,m), 4.64(1H,brs), 7.11(1H,s), 7.42-7.51(3H,m), 7.74(2H,d,J=6.6Hz), 8.46(2H,d,J=5.7Hz), 8.94(2H,d,J=5.7Hz), 9.98(1H,brs), 10.46(1H, brs) (DMSO-d6).	348
XA364	(DMSO-d6): 3.41-3.76(4H, m), 3.48(3H, s), 3.89-4.01(2H, m), 4.96(1H, m), 7.16(1H, s), 7.33-7.58(3H, m), 8.11(1H, dd, J=7.2, 7.2Hz), 8.52(2H, d, J=6.6Hz), 8.97(2H, d, J=6.6Hz), 10.04(1H, m), 10.66(1H, m).	366
XA365	3.43(s, 3H), 3.51-3.96(m, 6H), 4.70(m, 1H), 7.00(s, 1H), 7.25(m, 1H), 7.54(m, 2H), 7.60(m, 1H), 8.20(d, J=5.7Hz, 2H), 8.80 (d, J=5.7Hz, 2H)(CDCI3)	366
XA366	2.27-2.85(1H, m), 2.94-3.08(3H, m), 3.43(3H,s), 3.59-3.67(2H, m), 3.94-3.97(1H, m), 6.81(1H, s), 7.19(2H, t, J=8.9 Hz), 7.50-7.55(2H, m), 7.96(2H, dd, J=1.6, 4.5 Hz), 8.68(2H, dd, J=1.5, 4.6 Hz)(DMSO-d6)	366

	10.05.0.50/014	
XA366 (HCI)	7.82-7.87(2H, m), 8.48(2H, d, J=6.6 Hz), 8.96(2H, d, J=6.3 Hz), 9.55-10.08(1H, m), 10.54-10.70(1H, m)(DMSO-d6)	366
XA369	7.20-7.45(3H,m), 7.74(1H,dd,J=1.9,7.6Hz), 7.81(2H,dd,J=1.4,4.6Hz), 8.70(2H,dd,J=1.4,4.6Hz).	382
XA370	(CDCl3):3.01(1H,dd,J=10.4,12.5Hz), 3.10-3.30(3H,m), 3.50-3.80(5H,m), 4.04(1H,dd,J=2.7,10.8Hz), 6.67(1H,s), 7.20-7.45(4H,m), 7.50(1H,s), 7.80(2H,dd,J=1.5,4.8Hz), 8.71(2H,dd,J=1.5,5.1Hz).	382
XA371	3.44(3H,s), 3.44-3.71(7H,m), 3.90(2H,m), 4.66(1H,brs), 7.11(1H,s), 7.55(2H,d,J=8.4Hz), 7.78(2H,d,J=8.4Hz), 8.50(2H,d,J=5.7Hz), 8.95(2H,d,J=5.7Hz), 10.13(1H,brs), 10.60(1H,brs)(DMSO-d6)	382
XA376	(DMSO-d6):3.45(3H,s), 3.50-4.20(6H,m), 4.66(1H,br s), 7.12(1H,s), 7.72(4H,s), 8.44(2H,d,J=6.6Hz), 8.94(2H,d,J=6.6Hz), 10.00(1H,br s), 10.05(1H,br s).	426
XA391	3.37-3.93(6H, m), 3.48(3H, s), 3.87(3H, s), 4.89-4.95(1H, m), 7.04-7.12(2H, m), 7.17(1H, d, J=8.5 Hz), 7.45-7.51(1H, m), 7.75-7.81(1H, m), 8.29-8.38(2H, m), 8.83-8.91(2H, m), 9.66-9.77(1H, m), 9.91-10.10(1H, m)(DMSO)	378
XA392	(DMSO-d6):3.30-3.58(5H,m), 3.58-3.80(2H,m), 3.81(3H,s), 3.85-4.00(2H,m), 4.58-4.75(1H,m), 7.03(1H,dd,J=1.8,8.1Hz), 7.11(1H, s), 7.26(1H,d,J=7.8Hz), 7.35-7.50(2H,m), 8.41(2H,d,J=5.7Hz), 8.92(2H,d,J=6.0Hz), 9.80-10.00(1H,brd), 10.30-10.60(1H,brd).	.378
XA393	3.40-3.43(5H,m), 3.51-3.63(2H,m), 3.78(3H,s), 3.93(2H,m),4.58(1H,br), 7.02-7.06(3H,m), 7.64(2H,d,J=8.7Hz), 8.34(2H,d,J=6.3Hz), 8.88(2H,d,J=8.7Hz), 9.76(1H,br), 10.16(1H,br)(DMSO-d6)	378
XA396	1.30(3H, t, J=6.9 Hz), 3.38-3.54(1H, m), 3.49(3H, s), 3.65-3.79(1H, m), 3.84-3.98(2H, m), 4.02-4.18(2H, m), 4.84(1H, t, J=10.5 Hz), 7.04-7.16(2H, m), 7.15(1H, s), 7.39-7.45(1H, m), 7.89(1H, d, J=6.6 Hz), 8.49(2H, d, J=6.3 Hz), 8.95(2H, d, J=6.6 Hz), 9.92(1H, d, J=9.3 Hz), 10.51-10.64(1H, m)(DMSO-d6)	392

Γ	1/21/20 10 0 0 1/2	
	(DMSO-d6):3.64(2H,m),	
	3.94(2H,t,J=11.4Hz), 4.02-4.40(5H,m),	
V 4 4 9 9	4.78(1H,t,J=10.4Hz), 7.06(1H,s),	
XA406	1 · · · · · · · · · · · · · · · · · · ·	373
	8.23(1H,dd,J=1.2,5.1Hz)	1
1	9.02(1H,d,J=5.1Hz), 9.31(1H,d,J=1.2Hz),	
	10.03(1H,d,J=8.7Hz), 10.57(1H,s).	ļ
	(CDCl3):2.00(4H,m),	 -
	3.03(1H,dd,J=10.8,12.0Hz), 3.21(3H,m),	
	3.29(4H,m), 3.57(3H,s), 3.62(2H,m),	
XA433	3.90(1H,dd,J=2.7,10.8Hz),	1
	6.57(2H,d,J=8.7Hz), 6.66(1H,s),	417
	7 29(2H d l=8 7H=) 7 90(2H d l 4 21)	1
	7.29(2H,d,J=8.7Hz), 7.80(2H,d,J=4.8Hz), 8.70(2H,d,J=4.8Hz).	1
	(CDC12):2.02(41) +11 + 42 = 12	
j	(CDCl3):3.02(1H,dd,J=10.7,12.4Hz),	
	3.18(7H,m), 3.55(3H,s), 3.62(2H,m),	
XA439	3.87(4H,m), 3.96(1H,dd,J=2.5,11.1Hz),	404
	6.66(1H,S), 6.93(2H,d,J=8.7Hz),	434
	7.36(2H,d,J=8.7Hz), 7.79(2H,d,J=4.5Hz),	
	18.70(2H,d,J=4.5Hz).	
	(CDCl3):2.36(3H,s), 2.59(4H,m),	
	3.02(1H,t,J=11.6Hz), 3.22(7H,m)	ł
XA442	3.55(3H,s), 3.63(2H,m),	ļ
701772	3.94(1H,d,J=10.5Hz), 6.66(1H,s),	446
	6.93(2H,d,J=8.7Hz), 7.34(2H,d,J=8.7Hz),	
	7.80(2H,d,J=4.5Hz), 8.70(2H,d,J=4.5Hz).	1
	3.41-3.54(3H, m), 3.48(3H, s), 3.69-3.73(1H,	
	m), 3.78(3H, s), 3.82(3H, s), 3.86-3.93(2H,	
	m), 4.89(1H, t, J=10.5 Hz), 6.97-7.01(1H, m),	ĺ
VA 400	7 08(1H d l=0.0 H=) 7.45(4H) 7.05(1H, m),	
XA463	7.08(1H, d, J=9.0 Hz), 7.15(1H, s), 7.66(1H, d, J=3.0 Hz), 8.54(0H, d, J=3.0 Hz)	408
	d, J=3.0 Hz), 8.51(2H, d, J=6.3 Hz), 8.96(2H,	400
	d, J=6.3 Hz), 9.93(1H, d, J=9.0 Hz),	
	10.60-10.73(1H, m)(DMSO-d6)	
	(DMSO-d6): 3.45(3H, s), 3.38-3.81(6H, m),	
	3.88(6H, s), 5.06(1H, m), 6.82(2H, d,	
XA464	J=8.7Hz), 7.04(1H, s), 7.44(1H, t, J=8.4Hz),	
	8.20(1H, m), 8.30(2H, d, J=6.3Hz), 8.87(2H,	408
	d, J=6.3Hz), 10.07(1H, m).	
	2.40.2.50(411)	
j	3.40-3.50(4H, m), 3.47(3H, s), 3.83-3.94(2H,	
	'''/, 3.00(3H, S), 4.81-4.91(1H m)	
XA468	6.92-6.99(1H, m), 7.07-7 10(1H, m)	
	7.12(1H, s), 7.79-7.91(1H, m), 8.30-8.40(2H)	396
	111), 0.00-8.92(2H, m), 9.70-9.79(1H, m)	
	10.02-10.23(1H, m)(DMSO)	
	(DMSO-d6):3.38-3.60(6H,m),	
	3.60-3.80(1H,m) 3.80-4.00(5H,m),	
VA 4004	4.80-4.97(1H,m), 6.85-7.00(1H,m),	
XA469/	7 09/1H dd l=2 / 11 / H=) 7 / 2/4/1	
XA470	7.09(1H,dd,J=2.4,11.4Hz), 7.13(1H,s),	396
	7.95(1H,dd,J=6.9,8.7Hz),	
	8.46(2H,d,J=6.6Hz), 8.94(2H,d,J=6.3Hz),	
	9.80-10.00(1H,brd), 10.35-10.60(1H brd)	
1	3.30-4.00(6H, m), 3.46(3H, s), 3.94(3H, s)	
1	4.94-5.02(1H, m), 6.96-7.01(1H, m)	
XA472	7.05(1H, d, J=8.6 Hz), 7.14(1H, s),	
	7.49-7.58(1H, m), 8.44-8.50(2H, m),	396
	8.52-8.64(1H m) 8 96(2H d l-6 6 H-)	
	10.49-10 60/1H m\/DMSO\	ľ
	8.52-8.64(1H, m), 8.96(2H, d, J=6.6 Hz), 10.49-10.60(1H, m)(DMSO)	

XA480	2.78(1H, dd, J=10.0, 12.1 Hz), 3.18-3.27(3H, m), 3.59(3H, s), 3.64-3.74(2H, m), 3.86(3H, s), 4.37(1H, dd, J=2.4, 10.1 Hz), 6.67(1H, s), 6.89(1H, d, J=2.1 Hz), 6.99(1H, dd, J=1.7, 8.0 Hz), 7.50(1H, d, J=8.2 Hz), 7.82(2H, dd, J=1.5, 4.8 Hz), 8.71(2H, dd, J=1.8, 4.5 Hz)(CDCI3)	412
XA490 (2HCI)	3.35-3.94(6H, m), 3.49(3H, s), 4.71-4.80(1H, m), 7.02-7.11(1H, m), 7.18-7.28(2H, m), 7.98-8.10(1H, m), 8.31-8.48(2H, m), 8.87-8.97(2H, m), 9.79-9.92(1H, m), 10.18-10.39(1H, m) (DMSO)	380
XA501	(CDCl3):2.77(1H,dd,J=10.2,12.0Hz), 3.15-3.35(3H,m), 3.50-3.80(5H,m), 3.84(3H,s), 4.39(1H,d,J=7.8Hz), 6.67(1H,s), 6.78(1H,d,J=8.8Hz), 7.39(1H,dd,J=2.4,8.7Hz), 7.71(1H,d,J=2.3Hz), 7.82(2H,d,J=6.0Hz), 8.71(2H,d,J=6.0Hz).	456
XA510	(CDCl3): 1.98-2.05(4H, m), 2.85(1H, dd, J=12, 10.5Hz), 3.17-3.24(7H, m), 3.58(3H, s), 3.65-3.72(2H, m), 3.85(3H, s), 4.28(1H, dd, 10.5, 2.7Hz), 6.10(1H, d, J=2.1Hz), 6.18(1H, dd, J=8.7, 2.1Hz), 6.65(1H, s), 7.33(1H, d, J=8.4Hz), 7.83(2H, dd, J=4.5, 1.8Hz), 8.70(2H, dd, J=4.5, 1.5Hz).	447
XA511	(CDCl3):1.90-2.05(4H,m), 2.93(1H,t,J=12.0Hz), 3.15-3.40(7H,m), 3.59(3H,s), 3.65-3.85(5H,m), 4.11(1H,dd,J=2.1,10.2Hz), 6.49(1H,dd,J=3.0,9.0Hz), 6.66(1H,s), 7.83(2H,dd,J=1.8,4.5Hz), 8.70(2H,dd,J=1.5,4.5Hz).	447
XA516	(DMSO-d6):3.20-3.70(4H,m), 3.70(1H,m), 3.98(3H,s), 3.99(3H,s), 4.00(1H,m), 4.96(1H,d,J=10.2Hz), 7.01(1H,s), 7.03(2H,m), 8.26(2H,d,J=6.1Hz), 8.53(1H,s), 8.84(2H,d,J=6.1Hz), 10.25(1H,d,J=10.7Hz)	414
XA525	(DMSO-d6):3.30-3.50(2H,m), 3.48(3H,s), 3.55-3.78(2H,m), 3.78(3H,s), 3.96(2H,d,J=13.5Hz), 4.69(1H,t,J=10.4Hz), 7.06(1H,t,J=7.4Hz), 7.12(1H,s), 7.14(1H,d,J=7.4Hz), 7.31(1H,d,J=7.4Hz), 7.39(1H,t,J=7.4Hz), 7.59(2H,d,J=8.3Hz), 7.77(2H,d,J=8.3Hz), 8.43(2H,d,J=6.5Hz), 8.93(2H,d,J=6.5Hz), 9.89(1H,d,J=8.7Hz), 10.34(1H,s).	454
XA527	(DMSO-d6):3.40-4.10(9H,m), 3.81(3H,s), 4.69(1H,m), 7.05(1H,s), 7.05(2H,d,J=9.0Hz), 7.67(2H,d,J=9.0Hz), 7.75(4H,s), 8.27(2H,d,J=5.7Hz), 8.85(2H,d,J=5.7Hz), 9.75(1H,s), 10.04(1H,s).	454

XA536	(DMSO-d6):3.40-3.60(2H,m), 3.47(3H,s), 3.68(2H,m), 3.95(2H,m), 4.71(1H,t,J=9.9Hz), 7.16(1H,s), 7.33(2H,t,J=8.85Hz), 7.78(6H,m), 8.50(2H,d,J=6.3Hz), 8.97(2H,d,J=6.3Hz), 10.02(1H,s), 10.50(1H,s).	443
XA543	3.52(s, 3H), 3.57-4.10(m, 6H), 5.57(m, 1H), 7.02(s, 1H), 7.53-7.70(m, 2H), 8.06(d, J=7.2Hz, 2H), 8.21-8.34(m, 3H), 8.82(d, J=6.3Hz, 2H), 9.88-9.92(m, 1H), 10.58-10.61(m, 1H)(DMSO d6)	398
XA544	3.41-3.59(2H, m), 3.49(3H, s), 3.68-3.76(2H, m), 3.97-4.02(2H, m), 4.78-4.89(1H, m), 7.15(1H, s), 7.58-7.63(2H, m), 7.89-8.07(4H, m), 8.30(1H, s), 8.49(2H, d, J=6.3 Hz), 8.95(2H, d, J=6.3 Hz), 10.17(1H, d, J=8.4 Hz), 10.57-10.70(1H, m)(DMSO-d6)	398
XA619	(CDCI3): 2.98(1H, dd, J=12.6, 10.8Hz), 3.17-3.28(5H, m), 3.58(3H, s), 3.62(1H, m), 3.79(1H, m), 4.26(1H, dd, 10.5, 2.7Hz), 4.62(2H, m), 6.66(1H, s), 6.88(1H, t, J=7.5Hz), 7.16(1H, d, J=7.2Hz), 7.27(1H, m), 7.84(2H, d, J=6.0), 8.70(2H, dd, J=4.8, 1.2Hz).	390
XA626	3.33-3.41(4H, m), 3.42(3H, s), 3.47-3.87(4H, m), 6.84(1H, s), 7.44-7.49(5H, m), 7.99(2H, dd, J=1.5, 4.5 Hz), 8.69(2H, dd, J=1.4, 4.8 Hz)(DMSO-d6)	376
XA649	3.44(3H, s),3.37-4.04(9H, m),4.67(1H, d,J=9.6Hz),7.10(1H, s),7.45-7.55(3H, m),7.83(2H, d,J=6.0Hz),8.47(2H, d,J=6.6Hz),8.95(2H, d,J=6.6Hz),12.15(1H, brs)(DMSO-d6)	362
XA756	(CDCl3):2.50-2.61(1H,m), 2.80-2.95(1H,m), 3.05-3.20(1H,m), 3.25-3.40(1H,m), 3.50-3.60(1H,m), 3.57(3H,s), 3.65-3.75(1H,m), 3.75-3.80(1H,m), 3.85(3H,s), 6.60-6.80(3H,m), 7.47(1H,dd,J=7.2,8.4Hz), 7.82(2H,dd,J=1.5,4.5Hz), 8.71(2H,dd,J=1.5,4.5Hz).	410
XA757/ XA758	(DMSO-d6):2.54(3H,s), 3.40-3.79(3H,m), 3.46(3H,s), 3.80-4.10(6H,m), 4.83-5.10(1H,m), 6.90-7.05(1H,m), 7.08(1H,s), 7.13(1H,dd,J=2.7,11.4Hz), 8.00-8.25(1H,brd), 8.37(2H,d,J=6.3Hz), 8.91(2H,d,J=6.6Hz), 11.80-12.20(1H,brd).	410
XA831	2.55(s, 3H), 3.51(s, 3H), 3.67-3.82(m, 4H), 4.04-4.08(m, 2H), 5.64(m, 1H), 7.05(s, 1H), 7.59-7.72(m, 3H), 8.06-8.11(m, 2H), 8.35(d, J=6.6Hz, 2H), 8.41(d, J=7.8Hz, 1H), 8.49 (d, J=6.9Hz, 1H), 8.84(d, J=6.6Hz, 2H)(DMSO d6)	412

	(DMCO do) o de o de	
	(DMSO-d6):3.15-3.35(1H,m),	
XA	3.38-3.60(4H,m), 3.75-4.15(8H,m),	
1016	4.18-4.25(1H,m), 4.90-5.20(1H,m),	486
	17.00-7.20(3H,m), 7.30-7.55(6H m)	
	10.30-0.70(3H,m), 9.00(2H,d,l=6.3H7)	
- 1	(CDCl3):1.80-2.42(3H, m), 3.08-3.39(4H,	
	m), 3.40-3.62(1H, m), 3.65-4.23(6.8H,m),	
XA	4.63-4.90(0.6H, m), 5.40-5.62(0.7H, m),	
1276	5.80-6.00(0.4H, m), 5.40-5.62(0.7H, m),	438
12.0	5.80-6.00(0.1H, m), 6.52-6.78(3H, m),	1 400
	6.90-7.2(1H, m), 7.68-7.90(2H,m),	ļ
	8.64-8.80(2H,m)	
	1.48(3H, s), 1.57(3H, s), 3.50(3H, s),	
ļ	3.51-3.66(2H, m), 3.72-3.76(1H m)	
	3.90(3H, s), 3.99(1H, d, J=13.4 Hz),	
XA	5.15-5.23(1H, m), 7.08-7.12(2H, m),	
1649	7.18(1H, d, J=8.6 Hz), 7.46-7.49(1H, m),	406
	8.04-8.11(1H m) 0.07.0.45(1H, m),	
1	8.04-8.11(1H, m), 8.37-8.45(2H, m),	
	8.89-8.97(2H, m), 9.49-9.60(1H, m),	}
	<u> 9.95-10.11(1H, m)(DMSO)</u>	
	3.01 (1H, dd, $J = 10.8$, 12.9 Hz) 3.10-3.30	
1	(3H, M), 3.50-3.75 (5H, m) 4.04 (4H, dd, 1-	
XA	2.7, 10.8 Hz), 6.67 (1H, s), 7.20-7.40 (4H,	
1973	m), 7.50 (1H, s), 7.80 (2H, dd, J = 1.5, 4.8	382
	Hz) 8 71 (2H dd L 4 5 5 4 4 2 2 (20 2)	1
<u> </u>	Hz), 8.71 (2H, dd, J = 1.5, 5.1 Hz) (CDCl3)	
	2.80 (1H, dd, J = 10.3, 12.2 Hz), 3.15-3.30	
]	(3H, m), 3.50-3.80 (5H, m), 4.44 (1H, dd, J =	
XA	2.6, 10.3 Hz), 6.67 (1H, s), 7.10-7.20 (1H,	
	m), 7.25-7.40 (1H, m), 7.59 (4H, add 1, 4.6	
1974	m), 7.25-7.40 (1H, m), 7.58 (1H, dd, J = 1.0,	426
1	8.1 Hz), 7.73 (1H, dd, J = 1.6, 7.8 Hz), 7.81	
	(2H, dd, J = 1.6, 4.5 Hz), 8.70 (2H, dd, J = 1.6, 4.5 Hz)	
	1.6, 4.5 HZ) (CDC(3)	
	2.95-3.10 (1H, m), 3.10-3.35 (3H, m), 3.56	
XA	(3H, s), 3.60-3.70 (2H, m), 3.80-4.05 (7H, m)	
1975	6.67 (1H, s), 6,87 (1H, d, J = 8.1 Hz),	407
1975	6.90-7.10 (2H, m), 7.80 (2H, dd, J = 1.8, 6.3	407
	Hz) 8 71 (2H dd 1 = 1 5 4 8 H =) (2D 212)	ŀ
	Hz), 8.71 (2H, dd, J = 1.5, 4.8 Hz) (CDCl3)	
	3.40 (3H, m), 3.45 (3H, s), 3.53-3.96 (3H, m),	
XA	4.00 (IP, t, J = 13.5Hz) 7.10 (1H e) 7.60	
1976	(2H, d, J=8.3Hz), 7.76 (2H, d, J=8.3Hz), 8.38	382
,	(17, prs), 8.91 (1H, d, J=4.8Hz), 9.88 (1H, hr.)	302
	s), 10.31 (1H, br s) (DMSO-d6)	1
i	3.40(3H, m), 3.46(3H, s), 3.62(1H, dd,	
	J=12.0, 13.2Hz), 3.72(1H, m), 3.92/1H +]
XA	J=15.5Hz), 4.68(1H, t. J=10.1Hz) 7 18/1H	
1977	s), 7.58(2H, d, J=8.6Hz), 7.83(2H, d,	200
1977	J=8.6Hz), 8.57(2H, d, J=6.6Hz), 9.01(2H, d,	382
	J=6.6Hz) 10.20(1H d l=7.0Hz), 8.01(2H, d,	1
i	J=6.6Hz), 10.20(1H, d, J=7.8Hz), 10.76(1H, hr s) (DMSO de)	1
	br s) (DMSO-d6)	
1	2.98 (1H, t, J = 10.9 Hz), 3.22 (m, 3H), 3.56	
i	(3H, S), 3.60 (2H, m), 4.03 (1H, d, l = 8.7 Hz)	İ
^^	6.68 (1H, s), 7.28 (1H, d, J = 8.2 Hz), 7.46	İ
1978	(1H, d, J = 8.2 Hz), 7.61 (1H, s), 7.79 (2H, d, l)	
	J = 5.6 Hz), 8.71 (2H, d, J = 5.6 Hz) (CDCl3)	
ļ	(CDCI3)	
		1

XA 1979	3.31 (1H, dd, J = 13.8, 8.9 Hz), 3.46 (3H, s), 3.85 (1H, dd, J = 13.8, 3.6 Hz), 4.10 (1H, d, J = 17.7 Hz), 4.19 (1H, d, J = 17.7 Hz), 4.91 (1H, dd, J = 8.9, 3.6 Hz), 6.11 (1H, s), 6.74 (1H, s), 7.32 (2H, d, J = 8.4 Hz), 7.42 (2H, d, J = 8.4 Hz), 7.79 (2H, dd, J = 4.8, 1.5 Hz), 8.74 (2H, dd, J = 4.8, 1.5 Hz) (CDCI3)	396
XA 1980	1.97 (4H, m), 3.26 (4H, m), 3.38 (2H, m), 3.45 (3H, s), 3.60 (2H, m), 3.80 (1H, d, J = 13.8 Hz), 3.92 (1H, d, J = 14.1 Hz), 4.48 (1H, t, J = 10.4 Hz), 6.65 (2H, d, J = 8.7 Hz), 7.16 (1H, s), 7.54 (2H, d, J = 8.7 Hz), 8.57 (2H, d, J = 6.6 Hz), 9.00 (2H, d, J = 6.6 Hz), 9.83 (1H, d, J = 9.3 Hz), 10.32 (1H, br s) (DMSO-d6)	417
XA 1981	3.21 (4H, m), 3.40 (2H, m), 3.46 (3H, s), 3.65 (2H, m), 3.78 (4H, m), 3.91 (2H, t, J = 13.7 Hz), 4.55 (1H, t, J = 10.1 Hz), 7.14 (2H, d, J = 8.7 Hz), 7.20 (1H, s), 7.64 (2H, d, J = 8.7 Hz), 8.60 (2H, d, J = 6.6 Hz), 9.02 (2H, d, J = 6.6 Hz), 9.93 (1H, d, J = 9.0 Hz), 10.47 (1H, br s) (DMSO-d6)	433
XA 1982	2.80 (3H, d, J = 4.5 Hz), 3.15 (4H, m), 3.44 (4H, m), 3.45 (3H, s), 3.60 (2H, m), 3.82 (1H, d, J = 13.5 Hz), 3.90 (3H, m), 4.54 (1H, t, J = 10.5), 7.10 (2H, d, J = 8.7 Hz), 7.17 (1H, s), 7.64 (2H, d, J = 8.7 Hz), 8.54 (2H, d, J = 6.3 Hz), 8.99 (2H, d, J = 6.3 Hz), 9.94 (1H, d, J = 8.7 Hz), 10.47 (1H, br s), 11.26 (1H, br s) (DMSO-d6)	446
XA 1983	1.27(3H, t, J=6.6 Hz), 3.46-4.14(8H, m), 4.70(1H, m), 7.11(1H, s), 7.60(2H, d, J=8.4 Hz), 7.76(2H, d, J=8.4 Hz), 8.32(2H, d, J=6 Hz), 8.89(2H, d, J=6.0 Hz), 9.87(1H, m), 10.23(1H, m), (DMSO-d6)	396
XA 1984	1.27(6H, dd, J=6.9, 6.9 Hz), 3.37-4.36(6H, m), 4.66-4.79(2H, m), 7.03(1H, s), 7.62(2H, d, J=8.7 Hz), 7.78(2H, d, J=8.7 Hz), 8.33(2H, d, J=6 Hz), 8.90(2H, d, J=6.0 Hz), 9.93(1H, m), 10.25(1H, m), (DMSO-d6)	410
XA 1985	1.40(3H, d, J=6.3 Hz), 3.44-4.04(5H, m), 3.48(3H, s), 4.69(1H, m), 7.08(1H, s), 7.60(2H, d, J=8.4 Hz), 7.79(2H, d, J=8.4 Hz), 8.33(2H, d, J=6.3 Hz), 8.90(2H, d, J=6.3 Hz), 9.83(1H, m), 10.00(1H, m), (DMSO-d6)	396

XA 1986	1.57(6H, s), 3.50(3H, s), 3.51-3.93(4H, m), 4.98(1H, m), 7.11(1H, s), 7.60(2H, d, J=7.4 Hz), 7.94(2H, d, J=7.4 Hz), 8.41(2H, d, J=6.0 Hz), 8.93(2H, d, J=6.0 Hz), 9.88(1H, m), 10.05(1H, m), (DMSO-d6)	410
XA 1987	9.65(1H, m), 10.23(1H, m), (DMSO-d6)	396
XA 1988	2.34 (1H, m), 2.42 (1H, m), 2.80 (3H, d, J = 5.6 Hz), 2.81 (3H, d, J = 5.6 Hz), 3.28 (1H, q, J = 8.8 Hz), 3.43 (2H, m), 3.45 (3H, s), 3.57 (5H, m), 3.80 (1H, d, J = 11.4 Hz), 3.96 (2H, m), 4.50 (1H, t, J = 10.4 Hz), 6.69 (2H, d, J = 8.4 Hz), 7.14 (1H, s), 7.55 (2H, d, J = 8.4 Hz), 8.47 (2H, d, J = 5.6 Hz), 8.96 (2H, d, J = 5.6 Hz), 9.75 (1H, d, J = 8.0 Hz), 10.16 (1H, br s), 11.40 (1H, br s) (DMSO-d6)	I
XA 1989	1.65 (2H, br s), 1.91 (4H, br s), 3.46 (9H, s), 3.70 (2H, m), 3.92 (2H, t, J = 16.6 Hz), 4.66 (1H, br s), 7.16 (1H, s), 7.85 (4H, br s), 8.50 (2H, d, J = 6.4 Hz), 8.97 (2H, d, J = 6.4 Hz), 10.01 (1H, br s), 10.59 (1H, br s) (DMSO-d6)	431
XA 1990	2.32 (1H, m), 2.42 (1H, m), 2.79 (3H, d, J = 5.2 Hz), 2.81 (3H, d, J = 5.2 Hz), 3.27 (1H, m), 3.39 (2H, m), 3.45 (3H, s), 3.59 (5H, m), 3.79 (1H, d, J = 13.3 Hz), 3.95 (2H, m), 4.50 (1H, t, J = 11.6 Hz), 6.69 (2H, d, J = 8.4 Hz), 7.16 (1H, s), 7.56 (2H, d, J = 8.4 Hz), 8.50 (2H, s), 8.98 (2H, d, J = 5.6 Hz), 9.78 (1H, br s), 10.19 (1H, br s), 11.44 (1H, br s) (DMSO-d6)	460
XA 1991	3.47 (3H, s), 3.61 (3H, m), 3.81 (3H, s), 4.02 (3H, m), 4.69 (1H, t, J = 10.6 Hz), 7.05 (2H, d, J = 8.8 Hz), 7.10 (1H, s), 7.67 (2H, d, J = 8.8 Hz), 7.77 (4H, s), 8.38 (2H, br s), 8.91 (2H, d, J = 5.2 Hz), 9.90 (1H, br s), 10.28 (1H, br s) (DMSO-d6)	454
XA 1992	1.26(3H, t, J=6.9 Hz), 1.41(3H, d, J=6.3 Hz), 3.43-4.06(7H, m), 4.74(1H, m), 7.09(1H, s), 7.58(2H, d, J=8.4 Hz), 7.84(2H, d, J=8.4 Hz), 8.32(2H, d, J=6.6 Hz), 8.90(2H, d, J=6.6 Hz), 9.90(1H, m), 10.03(1H, m), (DMSO-d6)	410
XA 1993	1.41(3H, t, J=6.3 Hz), 1.55(6H, dd, J=6.6, 6.6 Hz), 3.49-3.73(5H, m), 4.64(1H, m), 4.78(1H, m), 6.99(1H, s), 7.58(2H, d, J=8.7 Hz), 7.81(2H, d, J=8.7 Hz), 8.28(2H, d, J=6.3 Hz), 8.87(2H, d, J=6.3 Hz), 9.91(2H, m)(DMSO-d6)	424

XA 1994	1.27(3H, t, J=6.9 Hz), 1.55(3H, s), 1.60(3H, s), 3.42-4.14(6H, m), 5.04(1H, m), 7.13(1H, s), 7.60(2H, d, J=8.4 Hz), 7.91(2H, d, J=8.4 Hz), 8.32(2H, d, J=6.3 Hz), 8.89(2H, d, J=6.3 Hz), 9.80-9.84(2H, m)(DMSO-d6)	
XA 1995	1.52(3H, d, J=6.6 Hz), 1.58(6H, s), 1.59(3H, d, J=6.6 Hz), 3.40-3.68(4H, m), 4.75(1H, m), 5.09(1H, m), 7.03(1H, s), 7.60(2H, d, J=8.4 Hz), 7.93(2H, d, J=8.4 Hz), 8.89(2H, d, J=6.0 Hz), 8.89(2H, d, J=6.0 Hz), 9.89(2H, m)(DMSO-d6)	438
XA 1996	1.29 (3H, t, J = 6.8 Hz), 3.47 (2H, br s), 3.66 (3H, m), 3.81 (3H, s), 3.83 (1H, m), 4.04 (2H, m), 4.71 (1H, d, J = 10.6 Hz), 7.05 (2H, d, J = 8.8 Hz), 7.12 (1H, s), 7.67 (2H, d, J = 8.8 Hz), 7.75 (2H, d, J = 8.4 Hz), 7.79 (2H, d, J = 8.4 Hz), 8.36 (2H, d, J = 6.4 Hz), 8.91 (2H, d, J = 6.4 Hz), 9.92 (1H, d, J = 8.8 Hz), 10.29 (1H, br s) (DMSO-d6)	468
XA 1997	1.56 (3H, d, J = 6.4 Hz), 1.58 (3H, d, J = 6.4 Hz), 3.47 (2H, br s), 3.60 (1H, m), 3.77 (2H, m), 3.81 (3H, s), 4.72 (3H, m), 7.05 (2H, d, J = 8.8 Hz), 7.06 (1H, s), 7.68 (2H, d, J = 8.8 Hz), 7.76 (2H, d, J = 8.4 Hz), 7.80 (2H, d, J = 8.4 Hz), 8.42 (2H, d, J = 6.4 Hz), 8.94 (2H, d, J = 6.4 Hz), 10.02 (1H, d, J = 9.6 Hz), 10.39 (1H, br s) (DMSO-d6)	482
XA 1998	1.24 (1H, m), 1.39 (4H, m), 1.72 (1H, m), 1.79 (4H, m), 2.55 (1H, m), 3.45 (3H, s), 4.00-3.45 (6H, m), 4.61 (1H, t, J = 11.2 Hz), 7.09 (1H, s), 7.35 (2H, d, J = 8.4 Hz), 7.62 (2H, d, J = 8.4 Hz), 8.37 (2H, d, J = 4.0 Hz), 8.90 (2H, d, J = 4.0 Hz), 9.75 (1H, d, J = 9.6 Hz), 10.17 (1H, br s), (DMSO-d6)	430
XA 1999	1.04 (1H, m), 1.17 (2H, m), 1.43 (2H, m), 1.60 (1H, m), 1.79 (4H, m), 2.96 (3H, br s), 3.45 (3H, s), 4.18-3.44 (6H, m), 4.62 (1H, br s), 7.13 (1H, s), 7.75 (4H, br s), 8.46 (1H, br s), 8.95 (1H, br s), 9.87 (1H, br s), 10.40 (1H, br s) (DMSO-d6)	459
XA 2000	1.40(3H, d, J=6.6 Hz), 3.44-4.04(5H, m), 3.48(3H, s), 4.72(1H, m), 7.05(1H, s), 7.61(2H, d, J=8.4 Hz), 7.78(2H, d, J=8.4 Hz), 8.29(2H, d, J=6.0 Hz), 8.90(2H, d, J=6.0 Hz), 9.78-10.00(2H, m), (DMSO-d6)	396

XA 2001	1.26(3H, t, J=6.9 Hz), 1.41(3H, d, J=6.0 Hz), 3.43-4.06(7H, m), 4.74(1H, m), 7.08(1H, s), 7.58(2H, d, J=8.4 Hz), 7.81(2H, d, J=8.4 Hz), 8.29(2H, d, J=6.3 Hz), 8.88(2H, d, J=6.3 Hz), 9.84-10.00(2H, m), (DMSO-d6)		
XA 2002	1.41(3H, t, J=6.0 Hz), 1.56(6H, dd, J=6.6, 6.6 Hz), 3.49-3.73(5H, m), 4.62(1H, m), 4.78(1H, m), 7.00(1H, s), 7.59(2H, d, J=8.4 Hz), 7.81(2H, d, J=8.4 Hz), 8.30(2H, d, J=6.3 Hz), 8.88(2H, d, J=6.3 Hz), 9.91(2H, m)(DMSO-d6)	424	
XA 2003	3.03(4H, td, J=4.6Hz), 3.26(4H, t, J=4.5Hz), 3.48(3H, s), 6.65(1H, s), 7.10(2H, m), 7.20-7.45(5H, m), 7.65(2H, d, J=8.5Hz), 7.79(2H, d, J=6.3Hz), 8.71(2H, d, J=1.5, 4.8Hz)(CDCI3),	425	
XA 2004	2.93 (1H, m), 3.20 (2H, m), 3.30 (3H, s), 3.36 (1H, d, J = 12.8 Hz), 3.46 (1H, t, J = 12.0 Hz), 3.73 (4H, m), 7.03 (1H, s), 7.33 (2H, m), 7.42 (3H, m), 8.16 (2H, d, J = 6.4 Hz), 8.86 (2H, d, J = 6.4 Hz), 9.61 (1H, d, J = 10.0 Hz), 9.95 (1H, d, J = 8.4 Hz) (DMSO-d6)	362	
XA 2005	2.93 (1H, dd, J = 14.8, 8.4 Hz), 3.07 (1H, m), 3.19 (1H, m), 3.33 (3H, s), 3.41 (3H, s), 3.69 (1H, m), 3.80 (2H, d, J = 14.0 Hz), 6.96 (1H, br s), 7.39 (2H, d, J = 8.0 Hz), 7.49 (2H, d, J = 8.0 Hz), 8.00 (2H, br s), 8.77 (2H, br s), 9.24 (1H, s), 9.54 (1H, s) (DMSO-d6)	396	
XA 2006	3.39 (2H, m), 3.46 (3H, s), 3.56 (2H, m), 3.85 (1H, d, J = 13.2 Hz), 3.93 (1H, d, J = 13.6 Hz), 4.55 (1H, t, J = 10.4 Hz), 6.94 (1H, br s), 7.13 (1H, s), 7.14 (4H, m), 7.30 (2H, m), 7.59 (2H, d, J = 8.0 Hz), 8.45 (2H, s), 8.95 (2H, s), 9.73 (1H, br s), 10.10 (1H, br s) (DMSO-d6)	508	
XA 2007	1.39 (1H, m), 1.80 (8H, m), 2.18 (2H, d, J = 11.2 Hz), 2.76 (2H, t, J = 11.4 Hz), 3.90 (2H, m), 3.33 (1H, m), 3.40 (3H, m), 3.45 (3H, s), 3.58 (2H, m), 3.82 (1H, d, J = 13.3 Hz), 3.93 (3H, m), 4.53 (1H, t, J = 10.4 Hz), 7.09 (2H, d, J = 8.8 Hz), 7.11 (1H, s), 7.56 (2H, d, J = 8.8 Hz), 8.40 (2H, d, J = 6.0 Hz), 8.92 (2H, d, J = 6.0 Hz), 9.75 (1H, d, J = 8.8 Hz), 10.14 (1H, br s), 10.39 (1H, br s) (DMSO-d6)	514	
XA 2008	2.82-2.90(1H, m), 3.01-3.05(4H, m), 3.22(3H, s), 3.44(3H, s), 3.58-3.66(2H, m), 4.08(1H, dd, J=1.2, 10.2Hz), 6.81(1H, s), 7.77(2H, d, J=7.2Hz), 7.92-7.98(4H, m), 8.69(2H, d, J=4.2Hz)(DMSO-d6)	426	

XA 2009	1.21(3H, d, J=6.6 Hz), 3.17-3.45(4H, m), 3.52(3H, s), 4.02(1H, m), 4.69(1H, m), 7.20(1H, s), 7.54(2H, d, J=8.4 Hz), 7.70(2H, d, J=8.4 Hz), 8.26(2H, d, J=6.3 Hz), 8.88(2H, d, J=6.3 Hz), 9.90(1H, m), 10.16(1H, m), (DMSO-d6)	396
XA 2010	1.21(3H, d, J=6.0 Hz), 3.17-3.45(4H, m), 3.53(3H, s), 4.02(1H, m), 4.70(1H, m), 7.24(1H, s), 7.54(2H, d, J=8.7 Hz), 7.73(2H, d, J=8.7 Hz), 8.33(2H, d, J=5.7 Hz), 8.93(2H, d, J=5.7 Hz), 10.04(1H, m), 1037(1H, m), (DMSO-d6)	396
XA 2011	3.02 (1H, t, J = 11.9 Hz), 3.17 (6H, m), 3.55 (3H, s), 3.63 (2H, m), 3.86 (4H, m), 3.96 (1H, d, J = 10.2 Hz), 6.66 (1H, s), 6.92 (2H, d, J = 8.4 Hz), 7.35 (2H, d, J = 8.4 Hz), 7.80 (2H, d, J = 5.1 Hz), 8.70 (2H, d, J = 5.1 Hz) (CDCI3)	433
XA 2012	2.31 (3.6H, s), 3.16 (4H, t, J = 4.8 Hz), 3.44 (3H, s), 3.45 (4H, m), 3.75 (4H, t, J = 4.8 Hz), 3.86 (1H, d, J = 14.0 Hz), 3.92 (1H, d, J = 12.4 Hz), 4.56 (1H, d, J = 10.4 Hz), 6.95 (1H, s), 7.06 (2H, d, J = 8.8 Hz), 7.43 (2H, d, J = 8.8 Hz), 8.06 (2H, d, J = 6.0 Hz), 8.75 (2H, d, J = 6.0 Hz), 9.03 (1H, s), 9.33 (1H,d, J = 10.0 Hz) (DMSO-d6)	433
XA 2013	1.82 (4H, m), 1.97 (2H, m), 2.12 (2H, m), 2.77 (2H, t, J = 11.6 Hz), 3.01 (2H, m), 3.27 (1H, m), 3.40 (2H, m), 3.45 (3H, s), 3.49 (2H, m), 3.57 (1H, m), 3.63 (1H, m), 3.84 (1H, d, J = 13.6 Hz), 3.92 (3H, d, J = 12.8 Hz), 4.53 (1H, t, J = 11.2 Hz), 7.12 (2H, d, J = 8.4 Hz), 7.14 (1H, s), 7.58 (2H, d, J = 8.9 Hz), 8.49 (2H, d, J = 5.2 Hz), 8.97 (2H, d, J = 5.2 Hz), 9.82 (1H, br s), 10.24 (1H, br s), 11.12 (1H, br s) (DMSO-d6)	500
XA 2014	1.75(2H, m), 2.14(2H, m), 2.72(6H, d, J=4.5 Hz), 2.74-2.80(3H, m), 3.30-3.95(8H, m), 3.45(3H, s), 4.54(1H, m), 7.10(2H, d, J=9.0 Hz), 7.15(1H, s), 7.60(2H, d, J=9.0 Hz), 8.51(2H, d, J=6.6 Hz), 8.98(2H, d, J=6.6 Hz), 9.86(1H, m), 10.32(1H, m), 10.93(1H, m), (DMSO-d6)	474
XA 2015	1.68(2H, m), 2.09(2H, m), 3.16-3.90(10H, m), 3.45(3H, s), 4.60(1H, m), 7.13(1H, s), 7.45-7.71(4H, m), 8.45(2H, d, J=6.0 Hz), 8.94(2H, d, J=6.0 Hz), 9.83(1H, m), 10.22(1H, m) (DMSO-d6)	447

XA 2016	1 4 1 0 7 1 1 0 4 4 4	433
XA 2017	2.97 (6H, s), 3.45 (3H, s), 4.20-3.30 (6H, m), 4.53 (1H, t, J = 9.8 Hz), 6.69 (2H, br s), 7.14 (1H, s), 7.57 (2H, br s), 8.48 (2H, br s), 8.96 (2H, br s), 9.72 (1H, br s), 10.09 (1H, br s) (DMSO-d6)	391
XA 2018	3.18-3.22(1H, m), 3.44-3.80(15H, m), 4.51-4.55(1H, m), 5.11(2H, s), 7.04-7.07(3H, m), 7.32-7.39(5H, m), 7.52-7.55(2H, m), 8.33-8.35(2H, m), 8.82-8.87(2H, m), 9.65-9.75(2H, br)(DMSO-d6)	566
XA 2019	1.32(6H, d, J=6.8Hz), 3.04-3.88(18H, m), 4.52-4.55(1H, m), 7.09-7.12(3H, m), 7.62(2H, d, J=7.2Hz), 8.45(2H, d, J=4.2Hz), 8.94(2H, d, J=4.2Hz), 9.83-10.34(3H, br), 11.00-11.04(1H, br)(DMSO-d6)	474
XA 2020	1.32(6H, d, J=6.8Hz), 3.04-3.88(18H, m), 4.52-4.55(1H, m), 7.09-7.12(3H, m), 7.62(2H, d, J=7.2Hz), 8.45(2H, d, J=4.2Hz), 8.94(2H, d, J=4.2Hz), 9.83-10.34(3H, br), 11.00-11.04(1H, br)(DMSO-d6)	476
XA 2021	2.09(3H, s), 3.19-4.00(20H, m), 4.43-4.54(3H, m), 7.06-7.19(3H, m), 7.62(2H, d, J=7.2Hz), 8.44(2H, d, J=4.2Hz), 8.94(2H, d, J=4.2Hz), 9.82-9.85(1H, br), 10.26-10.30(1H, br), 11.30-11.40(1H, br)(DMSO-d6)	518
XA 2022	3.17-3.21(4H, m), 3.38-4.16(14H, m), 4.51-4.54(1H, m), 7.08-7.18(3H, m), 7.60(2H, d, J=7.2Hz), 8.43(2H, d, J=4.2Hz), 8.93(2H, d, J=4.2Hz), 9.26-9.34(2H, br), 9.81-84(1H, br), 10.25-10.30(1H, br)(DMSO-d6)	432
XA 2023	1.82(3H, m), 3.29(3H, m), 3.40-3.96(9H, m), 3.48(3H, s), 4.55(1H, m), 7.10(1H, s), 7.13(2H, d, J=8.4 Hz), 7.56(2H, d, J=8.4 Hz), 8.39(2H, d, J=6.0 Hz), 8.91(2H, d, J=6.0 Hz), 9.67(1H, m), 9.97(1H, m) (DMSO-d6)	445

XA 2024	1.89-2.03(2H, m), 2.95-3.07(5H, m), 3.29-3.83(5H, m), 3.40(3H, s), 4.40(1H, m), 4.94(1H, m), 6.49(2H, d, J= 8.4 Hz), 7.13(1H, s), 7.25(2H, d, J= 8.4 Hz), 7.95(2H, d, J=6.0 Hz), 8.69(2H, d, J=6.0 Hz) (DMSO-d6)	433
XA 2025	1.16(6H, d, J= 6.3 Hz), 2.28-2.36(2H, m), 2.97-3.21(6H, m), 3.54(3H, s), 3.55-3.62(4H, m), 3.95(1H, m), 6.66(1H, s), 6.93(2H, d, J= 8.7 Hz), 7.32(2H, d, J= 8.7 Hz), 7.80(2H, d, J=6.3 Hz), 8.70(2H, d, J=6.3 Hz) (CDCI3)	460
XA 2026	1.26(6H, d, J= 6.3 Hz), 2.42(2H, dd, J= 11.1, 11.1 Hz), 3.02(1H, dd, J= 12.3, 10.8 Hz), 3.17-3.22(3H, m), 3.45-3.63(4H, m), 3.55(3H, s), 3.81(1H, m), 3.95(1H, dd, J= 13.2, 2.1 Hz), 6.66(1H, s), 6.92(2H, d, J= 8.4 Hz), 7.34(2H, d, J= 8.4 Hz), 7.80(2H, d, J=6.0 Hz), 8.70(2H, d, J=6.0 Hz) (CDCI3)	461
XA 2027	2.91-3.09(5H, m), 3.26(3H, s), 3.46(3H, s), 3.69-3.73(2H, m), 4.07-4.11(1H, m), 6.81(1H, s), 7.64(2H, d, J=7.2Hz), 7.77(2H, d, J=7.2Hz), 7.94-8.02(6H, m), 8.68(1H, d, J=4.2Hz)(DMSO-d6)	502
XA 2028	3.28-3.32(4H, m), 3.46(3H, s), 3.86-3.91(2H, m), 4.59-4.61(1H, m), 6.90(1H, s), 7.77-8.06(10H, m), 8.70(2H, d, J=4.2Hz), 9.36-9.44(1H, br)(DMSO-d6)	449
XA 2029	3.08 (1H, dd, J = 12.4, 10.4 Hz), 3.25 (3H, m), 3.58 (3H, s), 3.68 (2H, m), 4.09 (1H, dd, J = 10.4, 2.4 Hz), 6.68 (1H, s), 7.29 (2H, d, J = 8.4 Hz), 7.54 (2H, d, J = 8.4 Hz), 7.56 (2H, d, J = 8.4 Hz), 7.59 (2H, d, J = 8.4 Hz), 7.81 (2H, dd, J = 4.4, 1.6 Hz), 8.71 (2H, dd, J = 4.4, 1.6 Hz) (CDCI3)	508
XA 2030	3.08 (1H, dd, J = 12.4, 10.4 Hz), 3.27 (3H, m), 3.58 (3H, s), 3.70 (2H, m), 4.11 (1H, dd, J = 10.4, 2.4 Hz), 6.68 (1H, s), 7.57 (2H, d, J = 8.0 Hz), 7.63 (2H, d, J = 8.0 Hz), 7.70 (4H, s), 7.81 (2H, dd, J = 4.8, 1.2 Hz), 8.71 (2H, dd, J = 4.8, 1.2 Hz) (CDCI3)	492
XA 2031	1.45 (3H, t, J = 12.4 Hz), 3.08 (1H, dd, J = 12.4, 10.8 Hz), 3.24 (3H, m), 3.57 (3H, s), 3.67 (2H, m), 4.07 (1H, m), 4.09 (2H, q, J = 7.0 Hz), 6.67 (1H, s), 6.97 (2H, d, J = 8.4 Hz), 7.51 (2H, d, J = 8.4 Hz), 7.51 (2H, d, J = 8.4 Hz), 7.57 (2H, d, J = 8.4 Hz), 7.54 (2H, dd, J = 4.8, 1.2 Hz), 8.71 (2H, dd, J = 4.8, 1.2 Hz) (CDCI3)	468

XA 2032	1.94 (4H, m), 2.02 (1H, m), 2.21 (1H, m), 2.62 (4H, m), 2.91 (1H, m), 3.03 (1H, dd, J = 12.4, 10.4 Hz), 3.20 (4H, m), 3.33 (1H, m), 3.48 (2H, m), 3.54 (3H, s), 3.62 (2H, m), 3.91 (1H, dd, J = 10.4, 2.4 Hz), 6.55 (2H, d, J = 8.4 Hz), 6.66 (1H, s), 7.29 (2H, d, J = 8.4 Hz), 7.81 (2H, dd, J = 4.4, 0.8 Hz), 8.70 (2H, dd, J = 4.4, 0.8 Hz) (CDCI3)	468
XA 2033	2.29(3H, s), 3.06(4H, t, J=4.8Hz), 3.38(4H, t, J=4.8Hz), 3.51(3H, s), 5.70(1H, s), 6.67(1H, s), 7.24-7.29(5H, m), 7.83(2H, dd, J=1.6, 4.3Hz), 8.72(2H, dd, J=1.3, 4.5Hz)(CDCI3)	427
XA 2034	3.09 (1H, dd, J = 12.0, 10.8 Hz), 3.23 (3H, m), 3.57 (3H, s), 3.66 (2H, m), 3.82 (3H, s), 3.86 (3H, s), 4.06 (1H, dd, J = 10.8, 2.4 Hz), 6.58 (2H, m), 6.67 (1H, s), 7.24 (2H, m), 7.47 (2H, d, J = 8.0 Hz), 7.53 (2H, d, J = 8.0 Hz), 7.82 (2H, dd, J = 4.8, 1.2 Hz), 8.71 (2H, dd, J = 4.8, 1.2 Hz) (CDCI3)	484
XA 2035	3.08 (3H, dd, J = 12.4, 10.8 Hz), 3.25 (3H, m), 3.57 (3H, s), 3.67 (2H, m), 3.93 (3H, s), 3.96 (3H, s), 4.08 (1H, dd, J = 10.0, 2.0 Hz), 6.68 (1H, s), 6.95 (1H, d, J = 8.4 Hz), 7.11 (1H, d, J = 2.4 Hz), 7.16 (1H, dd, J = 8.4, 2.4 Hz), 7.51 (2H, d, J = 8.0 Hz), 7.58 (2H, d, J = 8.0 Hz), 7.81 (2H, dd, J = 4.8, 1.2 Hz), 8.71 (2H, dd, J = 4.8, 1.2 Hz) (CDCI3)	484
XA 2036	3.08 (1H, dd, J = 12.4, 10.8 Hz), 3.26 (3H, m), 3.57 (3H, s), 3.67 (2H, m), 4.09 (1H, dd, J = 10.0, 2.0 Hz), 6.68 (1H, s), 7.42 (2H, d, J = 8.4 Hz), 7.53 (4H, d, J = 8.4 Hz), 7.58 (2H, d, J = 8.4 Hz), 7.80 (2H, dd, J = 4.8, 1.6 Hz), 8.71 (2H, dd, J = 4.8, 1.6 Hz) (CDCI3)	458
XA 2037	3.09 (1H, dd, J = 12.4, 10.8 Hz), 3.25 (3H, m), 3.58 (3H, s), 3.69 (2H, m), 4.11 (1H, dd, J = 10.4, 2.4 Hz), 6.68 (1H, s), 7.28 (2H, m), 7.44 (2H, d, J = 8.0 Hz), 7.51 (3H, m), 8.81 (2H, dd, J = 4.0, 1.2 Hz), 8.72 (2H, dd, J = 4.0, 1.2 Hz) (CDCI3)	492
XA 2038	3.07 (1H, dd, J = 12.3, 11.0 Hz), 3.26 (3H, m), 3.57 (3H, s), 3.67 (2H, m), 4.10 (1H, dd, J = 10.2, 2.1 Hz), 6.68 (1H, s), 7.42 (1H, dd, J = 8.1, 2.2 Hz), 7.55 (5H, m), 7.68 (1H, d, J = 2.2 Hz), 7.80 (2H, dd, J = 4.8, 1.3 Hz), 8.71 (2H, dd, J = 4.8, 1.3 Hz) (CDCI3)	492

XA 2039	3.06 (1H, dd, J = 12.0, 10.8 Hz), 3.24 (3H, m), 3.58 (3H, s), 3.67 (2H, m), 4.13 (1H, dd, J = 10.4, 2.4 Hz), 6.68 (1H, s), 7.61 (2H, d, J = 8.4 Hz), 7.80 (2H, d, J = 4.4 Hz), 8.15 (2H, d, J = 8.4 Hz), 8.71 (2H, d, J = 4.4 Hz), 8.77 (1H, s) (CDCI3)	416
XA 2040	3.04-3.26(4H, m), 3.57(3H, s), 3.66-3.71(2H, m), 4.07(1H, m), 5.12(2H, s), 6.68(1H, s), 7.06(2H, d, J= 8.7 Hz), 7.40-7.59(11H, m), 7.81(2H, d, J=6.0 Hz), 8.71(2H, d, J=6.0 Hz) (CDCI3)	530
XA 2041	0.38(2H, m), 0.67(2H, m), 1.32(1H, m), 3.09(1H, dd, J=12.6, 11.1 Hz), 3.22-3.28(3H, m), 3.58(3H, s), 3.67-3.71(2H, m), 3.86(2H, d, J= 6.9 Hz), 4.08(1H, m), 6.68(1H, s), 7.06(2H, d, J= 9.0 Hz), 7.49-7.60(6H, m), 7.82(2H, d, J=6.0 Hz), 8.72(2H, d, J=6.0 Hz) (CDCI3)	494
XA 2042	1.37(6H, d, J= 6.0 Hz), 3.08(1H, dd, J=12.3, 11.1 Hz), 3.20-3.28(3H, m), 3.57(3H, s), 3.65-3.70(2H, m), 4.06(1H, m), 4.59(1H, m), 6.67(1H, s), 7.06(2H, d, J= 9.0 Hz), 7.48-7.59(6H, m), 7.81(2H, d, J=6.0 Hz), 8.71(2H, d, J=6.0 Hz) (CDCI3)	482
XA 2043	0.99(3H, t, J= 7.5 Hz), 1.40-1.85(4H, m), 3.05-3.30(4H, m), 3.57(3H, s), 3.65-3.70(2H, m), 4.00-4.10(3H, m), 6.67(1H, s), 6.97(2H, d, J= 8.7 Hz), 7.50-7.56(6H, m), 7.81(2H, d, J=6.0 Hz), 8.71(2H, d, J=6.0 Hz) (CDCI3)	496
XA 2044	1.66(1H, br.s), 2.52(3H, s), 3.05(1H, dd, J=10.5, 12.6Hz), 3.20-3.26(3H, m), 3.57(3H, s), 3.62-3.72(2H, m), 4.07(1H, dd, J=2.1, 10.5Hz), 6.67(1H, s), 7.33(2H, d, J=8.4Hz), 7.50-7.61(6H, m), 7.81(2H, dd, J=1.6, 4.3Hz), 8.70(2H, dd, J=1.3, 4.5Hz)(CDCI3)	469
XA 2045	1.72(1H, br.s), 2.40(3H, s), 2.98-3.26(5H, m), 3.57(3H, s), 3.57-3.67(1H, m), 4.07(1H, dd, J=2.1, 10.5Hz), 6.67(1H, s), 7.24(2H, d, J=8.1Hz), 7.49-7.52(4H, m), 7.60(2H, d, J=8.1Hz), 7.81(2H, dd, J=1.6, 4.3Hz), 8.70(2H, dd, J=1.3, 4.5Hz)(CDCI3)	437
XA 2046	1.36(9H, s), 1.72(1H, br.s), 3.06(1H, dd, J=10.5, 12.4Hz), 3.20-3.28(3H, m), 3.57(3H, s), 3.57-3.67(2H, m), 4.07(1H, dd, J=2.1, 10.5Hz), 6.67(1H, s), 7.24(2H, d, J=8.1Hz), 7.43-7.56(6H, m), 7.81(2H, dd, J=1.6, 4.3Hz), 8.71(2H, dd, J=1.3, 4.5Hz)(CDCI3)	479

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XA 2047	1.29(6H, d, J=6.9Hz), 1.73(1H, br.s), 2.96(1H, m), 3.06(1H, dd, J=10.5, 12.4Hz), 3.21-3.29(3H, m), 3.57(3H, s), 3.62-3.71(2H, m), 4.07(1H, dd, J=2.1, 10.5Hz), 6.67(1H, s), 7.31(2H, d, J=8.1Hz), 7.45-7.54(4H, m), 7.63(2H, d, J=8.1Hz), 7.81(2H, dd, J=1.6, 4.3Hz), 8.71(2H, dd, J=1.3, 4.5Hz), (CDCI3)	465
XA 2048	1.68(2H, br.s), 2.98(1H, dd, J=10.5, 12.6Hz), 3.20-3.27(2H, m), 3.56(3H, s), 3.64-3.74(1H, m), 4.04(1H, dd, J=3.3, 11.1Hz), 4.80(3H, s), 6.66(1H, s), 6.72(2H, d, J=8.5Hz), 7.49-7.52(4H, m), 7.63(2H, d, J=8.1Hz), 7.81(2H, dd, J=1.6, 4.3Hz), 8.70(2H, dd, J=1.3, 4.5Hz)(DMSO-d6)	
XA 2049	2.67 (3H, s), 3.06 (1H, dd, J = 12.4, 10.8 Hz), 3.25 (3H, m), 3.57 (3H, s), 3.62 (2H, m), 4.12 (1H, dd, J = 10.0, 2.0 Hz), 6.68 (1H, s), 7.59 (2H, d, J = 8.0 Hz), 7.80 (1H, dd, J = 4.8, 1.2 Hz), 8.09 (1H, d, J = 8.0 Hz), 8.71 (1H, dd, J = 4.8, 1.2 Hz) (CDCI3)	430
XA 2050	3.05(1H, m), 3.30-3.48(3H, m), 3.64(3H, s), 4.08-4.22(2H, m), 4.68(1H, m), 5.15(1H, d, J= 12.3 Hz), 5.21(1H, d, J= 12.6 Hz), 6.63(1H, s), 7.21(2H, d, J= 8.4 Hz), 7.28-7.39(7H, m), 7.59(2H, d, J=6.3 Hz), 8.68(2H, d, J=6.3 Hz) (CDCI3)	560
XA 2051	2.88-3.34(6H, m), 3.67(3H, s), 4.56(1H, dd, J= 9.9, 3.3 Hz), 6.62(1H, s), 7.19(2H, d, J= 10.8 Hz), 7.36(2H, d, J= 10.8 Hz), 7.58(2H, dd, J=4.5, 1.5 Hz), 8.67(2H, dd, J=4.5, 1.5 Hz) (CDCI3)	426
XA 2052	3.04(1H, m), 3.29-3.48(3H, m), 3.64(3H, s), 4.10-4.15(2H, m), 4.68(1H, m), 5.15(1H, d, J= 12.3 Hz), 5.21(1H, d, J= 12.6 Hz), 6.63(1H, s), 7.21(2H, d, J= 8.1 Hz), 7.32-7.39(7H, m), 7.59(2H, d, J=6.0 Hz), 8.68(2H, d, J=6.0 Hz) (CDCI3)	560
XA 2053	3.01(1H, m), 3.29-3.41(3H, m), 3.66(3H, s), 4.05-4.13(2H, m), 4.67(1H, m), 6.64(1H, s), 7.23(2H, d, J= 8.4 Hz), 7.41(2H, d, J= 8.4 Hz), 7.60(2H, dd, J=4.5, 1.5 Hz), 8.69(2H, dd, J=4.5, 1.5 Hz) (CDCI3)	527
XA 2054	2.28(3H, s), 3.07(4H, m), 3.59(4H, m), 3.73(3H, s), 5.78(1H, s), 6.70(1H, s), 6.98(1H, m), 7.40(1H, m), 7.60-7.66(2H, m), 7.81(2H, dd, J=1.6, 4.3Hz), 8.72(2H, dd, J=1.3, 4.5Hz)(CDCI3)	445

	2.24/211 -> 2.40/411 -> 2.40/411	
XA 2055	2.31(3H, s), 3.19(4H, m), 3.46(4H, m), 3.54(3H, s), 5.79(1H, s), 6.69(1H, s), 7.18-7.23(1H, m), 7.79(2H, d, J=5.4Hz), 7.79-7.87(2H, m), 8.54(1H, d, J=5.2Hz), 8.72(2H, d, J=4.5Hz)(CDCI3)	428
XB13	m), 6.93(1H, s), 7.20-7.35(5H, m), 8.26(2H, d, J=5.7 Hz), 8.87(2H, d, J=5.9 Hz)(DMSO-d6)	
XB16	7.26-7.40(5H, m), $7.81(2H, d, J = 6.0 Hz)$, $8.70(2H, d, J = 6.0 Hz)$ (CDCI3)	347
XB17	1.76-1.99(5H, m), 2.97-3.10(2H, m), 3.75(1H, d, J=12.4 Hz), 6.81(1H, s), 7.18-7.24(2H, m), 7.28-7.35(1H, m), 7.47(1H, t, J=7.1 Hz), 7.98(2H, d, J=5.8 Hz), 8.68(2H, d, J=5.8 Hz)(DMSO-d6)	365
XB19	1.86-2.14(4H, m), 2.94-3.03(3H, m), 3.55(3H, s), 3.68-3.75(2H, m), 6.66(1H, s), 7.05(2H, m), 7.23(2H, m), 7.80(2H, d, J = 6.3 Hz), 8.70(2H, d, J = 6.3 Hz)(CDCI3)	365
XB33	1.75-2.08(4H, m), 2.80(1H, m), 3.03(1H, m), 3.42(3H, s), 3.77(2H, m), 3.85(3H, s), 6.65(1H, s), 6.89-7.00(2H, m), 7.22-7.28(2H, m), 7.82(2H, d, J = 6.0 Hz), 8.70(2H, d, J = 6.0 Hz) (CDCI3)	377
XB35	1.73-1.83(4H, m), 2.90-3.02(3H, m), 3.42(3H, s), 3.67-3.81(2H, m), 3.74(3H, s), 6.80(1H, s), 6.91(2H, d, J=8.7 Hz), 7.27(2H, d, J=8.5 Hz), 7.97(2H, d, J=5.9 Hz), 8.69(2H, d, J=5.7 Hz)(DMSO-d6)	377
XB43	1.69-1.90(7H, m), 1.94-2.00(1H, m), 2.59-2.68(4H, m), 2.92-3.02(3H, m), 3.43(3H, s), 3.69-3.80(4H, m), 6.59(3H, s), 6.79(1H; s), 7.29-7.36(4H, m), 7.96(2H, d, J=5.9 Hz), 8.68(2H, d, J=5.1 Hz)(DMSO-d6)	430
XB46	3.15(1H, m), 3.45(1H, dd, J=12.9, 10.8Hz), 3.57(3H, s), 3.61-3.72(2H, m), 4.08(1H, m), 6.67(1H, s), 7.32(1H, m), 7.58-7.60(2H, m), 7.74(1H, d, J=7.8Hz), 7.80(2H, dd, J=4.5, 1.5Hz), 8.69(2H, dd, J=4.5, 1.5Hz)	388
XB47	(CDCl3): 1.90-2.06(3H, m), 2.36(1H, m), 3.14(1H, m), 3.42(1H, m), 3.57(3H, s), 3.61-3.71(2H, m), 4.06(1H, m), 6.68(1H, s), 7.09(1H, m), 7.28(1H, m), 7.68(1H, dd, J=8.8, 5.1Hz), 7.79(2H, d, J=4.7Hz), 8.69(2H, d, J=5.9Hz).	406

	1 00 3 10/311	
	1.90-2.10(3H, m), 2.32-2.44(1H, m), 3.11-3.20(1H, m), 3.45(1H, dd, J=10.5, 12.6	
	1 114/2 3.37 (30, S), 3.61-3 72(2H, m), 4.00/411	í
XB48	d, J=11.1 Hz), 6.67(1H, s), 7.30-7.35(1H, m)	,
1	7.56-7.62(2H, m), 7.74(1H, d, J=13.8 Hz),	, 388
	7.80(2H, dd, J=1.8, 4.5 Hz), 8.70(2H, dd,	Í
	J=1.8, 4.8 Hz)(CDCI3)	İ
	1.91-2.09(3H, m), 2.37-2.42(1H, m),	
	3.12-3.19(1H, m) 3.45(4H, dd + 4.5)	
1	3.12-3.19(1H, m), 3.45(1H, dd, J=10.8, 12.9	
XB49	Hz), 3.57(3H, s), 3.60-3.72(2H, m), 4.08(1H, d, J=11, 1 Hz), 6.67(1H, c), 7.00	1
	d, J=11.1 Hz), 6.67(1H, s), 7.30-7.35(1H, m), 7.54-7.62(2H, m), 7.75(1H, d, J=8.1 Hz),	388
	7.80(2H, dd, J=1.5, 4.5 Hz), 8.70(2H, dd,	
	J=1.8, 4.5 Hz)(CDCl3)	
	1.59-1.67(1H, m), 1.72-1.81(1H, m),	
	2.08(1H dt l=3.4.42.7.H=) 0.000	
	2.08(1H, dt, J=3.4, 12.7 Hz), 2.23-2.40(1H, m), 3.06-3.14(1H, m), 3.41-3.54(2H, m),	
XB50	3.42(3H s) 3.93(1H d l=14.0H, m),	
	3.42(3H, s), 3.93(1H, d, J=14.0 Hz), 7.02(1H, s), 7.24-7.29(1H, m), 363	
	s), 7.24-7.29(1H, m), 7.34-7.39(2H, m), 7.56-7.59(2H, m), 8.55(2H, m),	
	7.56-7.59(2H, m), 8.55(2H, d, J=6.6 Hz), 8.98(2H, d, J=6.5 Hz)(DM26.15)	1
	8.98(2H, d, J=6.5 Hz)(DMSO-d6)	
	2.21-2.36(4H, m), 3.19-3.31(2H, m), 3.46(3H, s), 3.88(3H, d)	
XB80	3.46(3H, s), 3.88(2H, d, J=13.2 Hz), 6.86(1H, s), 7.38-7.42(1H, m), 7.40-7.15(1H, m)	
	s), 7.38-7.42(1H, m), 7.46-7.51(2H, m), 7.58-7.64(2H, m), 8.04(0H, m)	372
	7.58-7.64(2H, m), 8.01(2H, d, J=5.1 Hz), 8.70(2H, d, J=5.1 Hz),	
	8.70(2H, d, J=5.1 Hz), 1.44(2H, m) 1.75 (2H) (2H, d, J=5.1 Hz),	
	1.44(2H, m), 1.75-1.83(3H, m), 2.63(2H, d, J	
XB122	= 6.9 Hz), 2.90(2H, m), 3.51(3H, s), 3.64(2H,	
	m), 6.65(1H, s), 7.17-7.34(5H, m), 7.80(2H,	361
	d, J = 6.3 Hz), 8.70(2H, d, J = 6.3 Hz)	
	1.44-2.16(5H, m), 2.86-2.97(2H, m),	
	3.49(3H s) 3.62(1H m) 0.72(4H, m),	
XB123	3.49(3H, s), 3.62(1H, m), 3.72(1H, m),	
	4.48(1H, d, J = 7.2 Hz), 6.64(1H, s), 7.07(2H,	395
	m), 7.32(2H, m), 7.79(2H, d, J = 6.3 Hz), 8.69(2H, d, J = 6.3 Hz) (CDCI3)	
	1 38-1 60(3H m) 4 70(4H m)	
	1.38-1.60(3H, m), 1.78(1H, m), 2.16(1H, m),	
VD.40.	2.79-2.94(2H, m), 3.20(3H, s), 3.49(3H, s), 3.59(1H, m), 3.60(4H, m),	
XB124		409
	Hz, 1H), 6.64(1H, s), 7.08(2H, m), 7.25(2H, m), 7.79(2H, d, 1 = 6.04)	409
	m), 7.79(2H, d, J = 6.0 Hz), 8.70(2H, d, J = 6.0 Hz) (CDCI3)	1
	1.87-2.06(4H m) 2.70(4H)	
\	1.87-2.06(4H, m), 2.79(1H, m), 3.10(2H, m),	
XB127	3.57(3H, s), 3.78(2H, m), 6.68(1H, s),	247
	7.23-7.29(3H, m), 7.34(2H, m), 7.84(2H, d, J	347
	= 6.0 Hz), 8.72(2H, d, J = 6.0 Hz) (CDCI3)	1
į.	1.01-2.03(40, M), 2./8(1H m) 3.00/2U>	
	0.07 (01), 5/, 0.79(2H, m) 6 69/1H at	ĺ
	7.03(2H, m), 7.23(2H, m), 7.84(2H, d, J = 5.4	365
j	Hz), 8.72(2H, br s) (CDCl3)	
	1 79 4 05/411	
1.	1.78-1.95(4H, m), 2.80-2.91(1H, m),	
XB134	4.90-3.09(2H, m) 3.45(3H e) 3.94/2H a l	ł
	У ^{— (З.)} П2), 0.8U(1H, 8) 7.33/1H дд 1—0.5 l	
AB134	5 5 W 7 1 / ED 7 56/6/	AAE
1 '	1.0 112/2 1.50-1.6U(2H, m) 7 99/2H 22	415
	8.3 Hz), 7.56-7.60(2H, m), 7.99(2H, dd, J=1.6, 4.5 Hz), 8.69(2H, dd, J=1.5, 4.5 Hz)(DMSO-d6)	415

XB145	1.82-2.02(4H, m), 3.09-3.27(3H, m), 3.57(3H, s), 3.79(2H, m), 3.86(3H, s), 6.67(1H, s), 6.89-6.99(2H, m), 7.21-7.26(2H, m), 7.84(2H, d, J = 6.0 Hz), 8.72(2H, d, J = 6.0 Hz) (CDCI3)	377
XB157	1.85-2.07(2H,m), 2.17-2.30(2H,m), 2.91-3.10(1H,m), 3.10-3.24(2H,m), 3.57(3H,s), 3.71-3.88(2H,m), 6.69(1H,s), 6.99-7.06(1H,m), 7.21(1H,dd,J=2.1,8.7Hz), 7.45(1H,s), 7.49-7.65(1H,m), 7.83(2H,dd,J=1.8,4.5Hz), 8.72(2H,dd,J=1.2,4.8Hz)(CDCI3)	405
XB158	2.22-2.32(4H, m), 3.22(2H, m), 3.37(1H, m), 3.58(3H, s), 3.82(2H, m, 6.71(1H, s), 7.10(1H, m), 7.29(1H, m), 7.67(1H, m), 7.83(2H, d, J = 6.3 Hz), 8.72(2H, d, J = 6.3 Hz) (CDCI3)	406
XB159	2.19-2.26(4H, m), 3.21(2H, m), 3.35(1H, m), 3.59(3H, s), 3.82(2H, m), 6.70(1H, s), 6.95(1H, dt, J = 9.0, 2.1 Hz), 7.13(1H, dd, J = 9.0, 2.1 Hz), 7.71(1H, m), 7.85(2H, d, J = 6.3 Hz), 8.72(2H, d, J = 6.3 Hz) (CDCl3)	405
XB160	2.13-2.34(2H,m), 2.34-2.43(2H,m), 3.10-3.38(3H,m), 3.57(3H,s), 3.68-3.83(2H,m), 6.69(1H,s), 7.29-7.40(2H,m), 7.46-7.59(1H,m), 7.64-7.78(1H,m), 7.80-7.78(2H,m), 8.72(2H,d,J=6.0Hz)(CDCI3)	388
XB161	2.19(2H, m), 2.38(2H, m), 3.18(2H, m), 3.39(1H, m), 3.58(3H, s), 3.80(2H, m), 6.70(1H, s), 7.39(1H, m), 7.50(1H, m), 7.83(2H, d, J = 6.0 Hz), 7.89(1H, d, J = 7.2 Hz), 8.01(1H, d, J = 7.8 Hz), 8.73(2H, d, J = 6.0 Hz) (CDCI3)	404
XB162	1.96(2H, m), 2.88(2H, m), 3.15(2H, m), 3.60(3H, s), 3.85(2H, m), 4.63(1H, m), 6.73(1H, s), 7.13-7.23(3H, m), 7.46(1H, d, J = 7.5 Hz), 7.84(2H, d, J = 6.3 Hz), 8.73(2H, d, J = 6.3 Hz)(CDCI3)	420
XB164	1.64(2H, m), 2.23(2H, m), 3.13(2H, m), 3.50(1H, m), 3.53(3H, s), 3.68(2H, m), 6.58(2H, m), 6.68(1H, s), 6.91(2H, m), 7.81(2H, d, J = 6.0 Hz), 8.72(2H, d, J = 6.0 Hz) (CDCI3)	380
XB165	1.91-1.99(4H, m), 2.84(3H, s), 3.07(2H, m), 3.55(3H, s), 3.77(2H, m), 3.84(1H, m), 6.69(1H, s), 6.75-6.87(3H, m), 7.27(2H, m), 7.82(2H, d, J = 6.3 Hz), 8.72(2H, d, J = 6.3 Hz) (CDCI3)	376
XB168	1.52(2H, m), 1.79(3H, s), 1.96(2H, m), 3.09(2H, m), 3.42(3H, s), 3.64(2H, m), 4.86(1H, m), 6.63(1H, s), 7.09-7.19(4H, m), 7.74(2H, d, J = 6.0 Hz), 8.70(2H, d, J = 6.0 Hz) (CDCl3)	422

XB169	6.0 Hz), 8.71(2H, d, J = 7.5 Hz), 7.84(2H, d, J = 6.0 Hz), 8.71(2H, d, J = 6.0 Hz) (CDCl3)	363
XB201	8.01(2H, dd, J=1.5, 4.5 Hz), 8.70(2H, dd, J=1.5, 4.5 Hz)(DMSO-d6)	390
XB227	7.39-7.46(4H, m), 7.97(2H, dd, J=1.5, 4.5 Hz), 8.68(2H, dd, J=1.5, 4.5 Hz)(DMSO.ds)	389
XB256	1.77-1.05(8H, m), 2.10(1H, m), 2.51(4H, m), 2.97-3.02(3H, m), 3.58(3H, s), 3.55(3H, s), 3.62(2H, s), 3.74(1H, m), 6.66(1H, s)	430
XB257	1.77-1.85(8H, m), 2.10(1H, m), 2.51(4H, m), 2.97-3.02(3H, m), 3.58(3H, s), 3.55(3H, s), 3.62(2H, s), 3.74(1H, m), 6.66(1H, s), 7.16(2H, d, J=7.8Hz), 7.32(1H, d, J=7.8Hz), 7.80(2H, dd, J=1.5, 4.8Hz), 8.70(2H, dd, J=1.5, 4.8Hz)(CDCI3)	430
XB258	1.86 (4H, m), 1.99 (4H, m), 3.03 (5H, m), 3.35 (4H, m), 3.43 (3H, s), 3.73 (2H, m), 4.30 (2H, s), 6.81 (1H, s), 7.43 (2H, d, J = 8.1 Hz), 7.69 (2H, d, J = 8.1 Hz), 7.97 (2H, d, J = 6.0 Hz), 8.69 (2H, d, J = 6.0 Hz), 11.01 (1H, br s) (DMSO-d6)	429
XB259	1.75 (1H, m), 1.89 (3H, m), 1.97 (3H, m), 2.13 (1H, d, J = 13.6 Hz), 3.02 (3H, m), 3.46 (2H, t, J = 7.0 Hz), 3.55 (3H, s), 3.66 (2H, t, J = 7.0 Hz), 3.75 (2H, m), 6.66 (1H, s), 7.30 (2H, d, J = 8.0 Hz), 7.52 (2H, d, J = 8.0 Hz), 7.80 (2H, dd, J = 6.0, 1.2 Hz), 8.71 (2H, dd, J = 6.0, 1.2 Hz)	443
XB260	1.77-1.86(8H, m), 2.94-3.06(5H, m), 3.43(3H, s), 3.73-3.78(2H, m), 4.28-4.31(2H, m), 6.81(1H, s), 7.44(2H, d, J=7.3Hz), 7.57(2H, d, J=7.3Hz), 7.96(2H, d, J=4.2Hz), 8.63(2H, d, J=4.2Hz), 10.75-10.80(1H, br)(DMSO-d6)	430
XB261	1.45-1.59(6H, m), 1.73-1.94(4H, m), 2.10-2.15(4H, m), 2.98-3.05(3H, m), 3.49(2H, m), 3.55(3H, s), 3.74-3.77(2H, m), 6.65(1H, s), 7.22(2H, d, J=8.4 Hz), 7.33(2H, d, J=8.4 Hz), 7.80(2H, d, J=6.0 Hz), 8.70(2H, d, J=6.0 Hz)(CDCl3)	444

XB262	1.19-1.31(6H, m), 1.80-1.94(7H, m), 2.10(1H, m), 2.32(3H, s), 2.45(1H, m), 2.97-3.02(3H, m), 3.54(3H, s), 3.55(2H, m), 3.69-3.74(2H, m), 6.66(1H, s), 7.22(2H, d, J=8.4 Hz), 7.33(2H, d, J=8.4 Hz), 7.81(2H, d, J=6.0 Hz), 8.71(2H, d, J=6.0 Hz)(CDCl3)	472
XB263	J=8.4 Hz), 7.58(2H, d, J=8.4 Hz), 8.21(2H, d, J=6.0 Hz), 8.82(2H, d, J=6.0 Hz)(DMSO-d6)	473
XB264	6.65(1H, s), 7.18(2H, d, J=8.4 Hz), 7.34(2H, d, J=8.4 Hz), 7.80(2H, d, J=6.0 Hz), 8.70(2H, d, J=6.0 Hz)	486
XB265	1.02(6H, d, J=6.6Hz), 1.23-1.28(5H, m), 1.72-2.15(9H, m), 2.51(1H, m), 2.97-3.08(4H, m), 3.55(3H, s), 3.70(2H, s), 3.74-3.78(2H, m), 6.65(1H, s), 7.18(2H, d, J=7.8 Hz), 7.34(2H, d, J=7.8 Hz), 7.81(2H, d, J=6.0 Hz), 8.70(2H, d, J=6.0 Hz)(CDCl3)	500
XB266	1.77-1.87(4H, m), 2.44(1H, m), 2.80(6H, s), 2.99-3.09(4H, m), 3.42(3H, s), 3.62-3.79(6H, m), 4.42(3H, m), 6.95(1H, s), 7.45(2H, d, J=8.1 Hz), 7.58(2H, d, J=8.1 Hz), 8.29(2H, d, J=6.0 Hz), 8.86(2H, d, J=6.0 Hz)(DMSO-d6)	473
XB267	1.85-1.88(4H, m), 2.81(1H, m), 2.99-3.07(2H, m), 3.44(3H, s), 3.79-3.84(2H, m), 6.82(1H, s), 7.29(2H, d, J=8.4 Hz), 7.51(2H, d, J=8.4 Hz), 8.01(2H, d, J=6.0 Hz), 8.70(2H, d, J=6.0 Hz)(DMSO-d6)	425
XB268	1.83-1.99(4H, m), 2.83(1H, m), 2.98-3.06(2H, m), 3.45(3H, s), 3.79-3.84(2H, m), 6.82(1H, s), 7.29-7.43(3H, m), 7.53(1H, s), 8.01(2H, d, J=6.0 Hz), 8.70(2H, d, J=6.0 Hz)(DMSO-d6)	425
XB269	1.74-1.96(8H, m), 2.51(1H, m), 2.65-3.01(2H, m), 3.04-3.18(4H, m), 3.44(3H, s), 3.77-3.81(2H, m), 6.49(2H, d, J=8.4 Hz), 6.80(1H, s), 7.09(2H, d, J=8.4 Hz), 8.00(2H, dd, J=4.5, 1.8 Hz), 8.69(2H, dd, J=4.5, 1.8 Hz)(DMSO-d6)	416
XB270	1.83-1.99(8H, m), 2.72(1H, m), 2.97-3.07(2H, m), 3.19-3.23(4H, m), 3.45(3H, s), 3.78-3.83(2H, m), 6.38(1H, d, J=7.8 Hz) 6.44(1H, s), 6.53(1H, d, J=7.5 Hz), 6.81(1H, s), 7.09(1H, dd, J=7.8, 7.8 Hz), 8.00(2H, d, J=5.4 Hz), 8.70(2H, d, J=5.7 Hz)(DMSO-d6)	416

XB27	7.58-7.63(1H, m), 8.00(2H, d, J=4.2Hz) 8.69(2H, d, J=4.2Hz), 10.90(1H brs)(DMSO-d6)	404
XB27	8.00(2H, d, J=4.2Hz), 8.70(2H, d, J=4.2Hz)(DMSO-d6)	430
XB273	6.56-6.65(4H, m), 6.79(1H, s), 7.99(2H, d, J=4.2Hz), 8.69(2H, d, J=4.2Hz)(DMSO-d6)	405
XB274	6.96(1H, dd, J=7.2Hz, 7.3Hz), 7.99(2H, d, J=4.2Hz), 8.69(2H, d, J=4.2Hz)(DMSO-d6)	1
XB275	d, J=7.2Hz), 6.79(2H, d, J=7.2Hz), 6.70(2H, d, J=7.2Hz), 6.79(1H, s), 7.98(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	392
XB276	1.57-1.68(2H, m), 2.03-2.07(2H, m), 3.05-3.09(2H, m), 3.41(3H, s), 3.51-3.77(6H, m), 4.57(1H, d, J=8.2Hz), 6.53-6.58(1H, m), 6.66-6.69(1H, m), 6.74-6.82(3H, m), 7.99(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	392
XB277	1.78-1.92(4H, m), 2.94-3.07(5H, m), 3.41-3.86(10H, m), 6.88-6.92(1H, m), 7.04(1H, s), 7.21-7.24(2H, m), 7.39-7.44(1H, m), 8.48(2H, d, J=4.2Hz), 8.95(2H, d, J=4.2Hz)(DMSO-d6)	406
XB278	1.68-2.08(4H, m), 2.90-2.96(2H, m), 3.15(3H, s), 3.38(3H, s), 3.81-4.04(7H, m), 7.03(1H, s), 7.13(2H, d, J=7.2Hz), 7.81(2H, d, J=7.2Hz), 8.45(2H, d, J=4.2Hz), 8.94(2H, d, J=4.2Hz)(DMSO-d6)	406
1	1.76-1.85(4H, m), 2.65(3H, s), 2.85-2.94(2H, m), 3.41-3.42(1H, m), 3.44(3H, s), 3.74-3.79(2H, m), 4.02(3H, s), 6.78(1H, s), 6.83-6.99(4H, m), 7.97(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	406

	14.00.4.00(4)(
XB280	8.97(2H, d, J=4.2Hz)(DMSO-d6)	1
XB281	8.68(2H, d, J=6.0 Hz)(DMSO-d6)	425
XB282	0.70(1H, d, J=4.2HZ)(DMSO-d6)	285
XB283	1.71-1.82(4H, m), 2.40-2.49(2H, m), 2.50-2.53(4H, m), 2.86-2.94(3H, m), 3.06-3.09(4H, m), 3.41(3H, s), 3.50-3.68(4H, m), 4.43-4.46(1H, m), 6.78(1H, s), 6.89(2H, d, J=7.2Hz), 7.17(2H, d, J=7.2Hz), 7.95(2H, d, J=4.2Hz), 8.67(2H, d, J=4.2Hz)(DMSO-d6)	475
XB284	1.71-1.93(4H, m), 2.86(6H, s), 2.88-2.97(3H, m), 3.41(3H, s), 3.65-3.75(2H, m), 6.73(2H, d, J=7.2Hz), 6.78(1H, s), 7.15(2H, d, J=7.2Hz), 7.96(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	390
XB285	1.72-1.83(4H, m), 2.89-2.96(3H, m), 3.05-3.09(4H, m), 3.42(3H, s), 3.71-3.75(4H, m), 6.78(1H, s), 6.91(2H, d, J=7.2Hz), 7.20(2H, d, J=7.2Hz), 7.96(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	432
XB286	1.52-1.91(10H, m), 2.86-2.94(3H, m), 3.07-3.10(4H, m), 3.41(3H, s), 3.66-3.75(2H, m), 6.78(1H, s), 6.89(2H, d, J=7.2Hz), 7.16(2H, d, J=7.2Hz), 7.95(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	430
XB287	1.64-1.88(4H, m), 2.21(3H, s), 2.42-2.45(4H, m), 2.89-2.94(3H, m), 3.07-3.11(4H, m), 3.41(3H, s), 3.69-3.75(2H, m), 6.78(1H, s), 6.90(2H, d, J=7.2Hz), 7.18(2H, d, J=7.2Hz), 7.96(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	445
XB288	1.43-1.47(2H, m), 1.71-1.90(6H, m), 2.19(6H, s), 2.58-2.66(2H, m), 2.87-2.95(2H, m), 2.87-2.98(3H, m), 3.30-3.32(1H, m), 3.41(3H, s), 3.64-3.75(4H, m), 6.78(1H, s), 6.90(2H, d, J=7.2Hz), 7.16(2H, d, J=7.2Hz), 7.96(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	473

	1.72-1.94(4H, m), 2.92-2.99(3H, m),	
XB289	3.08-3.11(4H, m), 3.41(3H, s), 3.52-3.56(4H, m), 3.66-3.75(2H, m), 5.11(2H, s), 6.78(1H, s), 6.93(2H, d, J=7.2Hz), 7.20(2H, d, J=7.2Hz), 7.28-7.39(5H, m), 7.95(2H, d, J=4.2Hz), 8.69(2H, d, J=4.2Hz)(DMSO-d6)	565
XB290	1.53-1.63(2H, m), 1.85-1.89(2H, m), 2.14(3H, s), 2.31-2.46(8H, m), 2.86-2.94(2H, m), 3.34-3.35(1H, m), 3.39(3H, s), 3.70-3.74(2H, m), 6.79(1H, s), 7.98(2H, d, J=4.2Hz), 8.69(2H, d, J=4.2Hz)(DMSO-d6)	200
XB291	1.52-1.63(2H, m), 1.85-1.90(2H, m), 2.34-2.42(11H, m), 2.86-2.94(2H, m), 3.39(3H, s), 3.45-3.50(2H, m), 3.70-3.74(2H, m), 4.38-4.40(1H, m), 6.80(1H, s), 7.98(2H, d, J=4.2Hz), 8.69(2H, d, J=4.2Hz)(DMSO-d6)	
XB292	1.71-1.83(4H, m), 2.81-3.00(11H, m), 3.28-3.30(1H, m), 3.41(3H, s), 3.66-3.75(2H, m), 6.78(1H, s), 6.89(2H, d, J=7.2Hz), 7.17(2H, d, J=7.2Hz), 7.96(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	431
XB293	1.43-1.53(2H, m), 1.93-1.98(3H, m), 2.63-2.66(1H, m), 2.92-3.00(2H, m), 3.39(3H, s), 3.62-3.79(7H, m), 6.78(1H, s), 6.88-6.97(2H, m), 7.18-7.22(1H, m), 7.35(1H, d, J=7.3Hz), 7.98(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	406
XB294	1.42-1.53(2H, m), 1.96-2.08(3H, m), 2.61-2.67(1H, m), 2.91-2.99(2H, m), 3.39(3H, s), 3.62-3.80(7H, m), 6.77(1H, s), 6.86(2H, d, J=7.2Hz), 7.25(2H, d, J=7.2Hz), 7.97(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	406
XB295	1.81-1.91(2H, m), 2.61-2.20(2H, m), 2.96-3.17(6H, m), 3.41-3.47(5H, m), 3.74-3.86(4H, m), 6.90-7.03(3H, m), 7.21-7.29(2H, m), 8.44(2H, d, J=4.2Hz), 8.93(2H, d, J=4.2Hz), 9.30-9.38(2H, br)(DMSO-d6)	420
XB296	1.80-1.91(2H, m), 2.07-2.21(2H, m), 2.96-3.11(6H, m), 3.34-3.41(5H, m), 3.69-3.86(4H, m), 6.91(2H, d, J=7.2Hz), 7.05(1H, s), 7.20(2H, d, J=7.2Hz), 8.49(2H, d, J=4.2Hz), 8.96(2H, d, J=4.2Hz), 9.44-9.50(2H, br)(DMSO-d6)	420

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XB297	J=7.2Hz), 7.97(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	419
XB298	2.04(2H, d, J=13.1Hz), 2.34(3H, s), 2.53(2H, m), 2.91(2H, m), 3.55(3H, s), 3.70(2H, d, J=13.1Hz), 4.27(1H, m), 6.08(1H, s), 6.86(1H, s), 7.36-7.48(5H, m), 7.80(2H, dd, J=1.6, 4.3Hz), 8.69(2H, dd, J=1.3, 4.5Hz)(CDCl3)	426
XB299	2.06(2H, d, J=13.1Hz), 2.22(2H, m), 2.99(2H, m), 3.13(1H, m), 3.54(3H, s), 3.70(2H, d, J=13.1Hz), 6.68(1H, s), 7.25(1H, s), 7.44-7.48(2H, m), 7.64-7.67(3H, m), 7.78(2H, dd, J=1.6, 4.3Hz), 8.69(2H, dd, J=1.3, 4.5Hz)(CDCI3)	413
XB300	1.75-1.85(4H, m), 2.97-3.10(5H, m), 3.43(3H, s), 3.71-3.76(2H, m), 3.88-3.93(2H, m), 6.70(1H, dd, J=7.2, 7.3Hz), 6.79(1H, s), 7.02-7.06(2H, m), 7.15-7.23(3H, m), 7.31-7.35(2H, m), 7.97(2H, d, J=4.2Hz), 8.69(2H, d, J=4.2Hz)(DMSO-d6)	464
XB301	1.09-1.34(5H, m), 1.57-1.88(9H, m), 2.78-2.93(3H, m), 3.08-3.18(1H, m), 3.41(3H, s), 3.62-3.74(2H, m), 5.27(1H, d, J=8.2Hz), 6.52(2H, d, J=7.2Hz), 6.79(1H, s), 7.01(2H, d, J=7.2Hz), 7.96(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	444
XB302	1.10-1.16(1H, m), 1.32-1.46(4H, m), 1.64-1.82(9H, m), 2.68(3H, s), 2.82-2.93(3H, m), 3.41(3H, s), 3.54-3.74(3H, m), 6.72(2H, d, J=7.2Hz), 6.78(1H, s), 7.12(2H, d, J=7.2Hz), 7.95(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	458

No.	NMR	MS[M+1]
YA0262	(DMSO-d6): 3.47(3H, s), 3.48-3.66(4H, m), 3.89-4.02(2H, m), 4.98(1H, m), 7.06(1H, s), 7.35-7.59(3H, m), 7.99(1H, dd, J=7.2, 6.9Hz), 8.25(1H, dd, J=5.4, 1.2Hz), 9.01(1H, d, J=5.1Hz), 9.31(1H, s), 9.84(1H, m), 10.19(1H, m).	367
YA0263	(CDCl3):3.01(1H,dd,J=10.5,12.4Hz), 3.10-3.35(3H,m), 3.57(3H,s), 3.55-3.65(2H,m), 4.05(1H,dd,J=2.4,10.4Hz), 7.00-7.10(1H,m), 7.30(1H,s), 7.22(2H,m), 7.30-7.42(2H,m), 8.15(1H,dd,J=1.3,5.2Hz), 8.86(1H,d,J=5.2Hz), 9.27(1H,d,J=1.0Hz).	367

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	2.83(1H, dd, J=11.0, 11.9 Hz), 2.93(1H, s),	
	2.99-3.10(3H, m), 3.45(3H, s), 3.61-3.69(2H, m), 3.95(1H, dd, J=2.1, 10.3 Hz), 6.97(1H, s),	
YA0264	7.19(2H, t, J=8.8 Hz), 7.48-7.56(2H, m), 8.17(1H,	
17.0204	dd, J=1.0, 5.0 Hz), 8.99(1H, d, J=5.1 Hz),	367
	9.29(1H, d, J=1.0 Hz)(DMSO-d6)	
1	5.25(11., 4, 5 1.5 112)(DMSO-Q6)	
	3.39-3.47(2H, m), 3.45(3H, s), 3.55-3.66(2H, m),	
	3.00-3.90(ZH, M), 4.64-4.71(1H, m), 7.05(1H, s)	ì
YA0264 (HCI)	/.30(2H, t, J=8./ HZ), /./7-7.81(2H, m), 8.23/1H	
	QQ, J=1.2, 3.1 HZ), 9.02(1H d l=5.1 Hz)	367
	9.32(1H, d, J=1.2 Hz), 9.79(1H, d, J=10.2 Hz)	
	10.13-10.28(1H, m)(DMSQ-d6)	
	(CDCl3):2.81(1H,dd,J=10.5,12.6Hz),	
	3.15-3.40(3H,m),	
YA0267	3.50-3.65(4H,m),3.65-3.80(1H,m),	383
	4.51(1H,dd,J=2.7,10.5Hz), 7.20-7.45(4H,m),	303
	7.74(1H,dd,J=1.5,7.5Hz), 8.15-8.20(1H,m),	
	8.85(1H,d,J=5.1Hz), 9.27(1H,s). (CDCl3):3.00(1H,dd,J=10.5,12.6Hz),	
	3.10-3.35(3H,m), 3.50-3.70(5H,m),	
YA0268	4.03(1H,dd,J=2.4,10.5Hz), 7.32(4H,m),	000
	7.50(1H,s), 8.15(1H,dd,J=1.2,5.1Hz),	383
İ	8.87(1H,d,J=5.1Hz), 9.27(1H,d,J=1.5Hz).	
	3.40-3.50(2H, m), 3.45(3H, s), 3.53-3.65(2H, m),	
	3.87-3.97(2H, m), 4.68(1H, t, J=10.2 Hz),	
YA0269	7.05(1H, s), 7.59(2H, d, J=11.1 Hz), 7.75(2H, d,	
170203	J=11.1 Hz), 8.22(1H, dd, J=1.5, 5.4 Hz), 9.02(1H	383
	[0, J=5.1 Hz], 9.31(1H, s), 9.83(1H, d, J=9.6 Hz)	
	10.11-10.25(1H, m)(DMSO-d6)	
	(DMSO-d6):3.45(3H,s), 3.40-3.70(4H,m),	
VA0074	3.92(2H,t,J=14.1Hz), 4.67(1H,br s), 7.06(1H,s)	
YA0274	1.68(2H,d,J=10.0Hz), 7.72(2H,d,J=10.0Hz)	427
	8.22(1H,d,J=4.8Hz), 9.03(1H,d,J=4.8Hz),	
	9.31(1H,s), 9.88(1H,br s), 10.22(1H,br s).	
	3.38-3.57(4H, m), 3.35(3H,s), 3.89(3H,s),	
	3.91-3.97(2H, m), 4.84-4.94(1H, m), 7.06(1H, s),	
YA0289	7.08-7.15(1H, m), 7.18(1H, d, J=8.4 Hz), 7.41-7.49(1H, m), 7.68(1H, d, J=7.6 Hz),	379
	8.25(1H, d, J=4.9 Hz), 9.04(1H, d, J=5.1 Hz),	
ı	9.32(1H, s)(DMSO)	
	(DMSO-d6):3.40-3.75(7H,m),	
	3.92(2H,t,J=13.2Hz), 4.64(1H,t,J=9.1Hz),	
	7.00-7.10(2H,m), 7.23(1H,d,J=7.6Hz),	1
YA0290	7.35(1H,s), 7.42(1H,t, J=7.8Hz)	379
	8.23(1H,d,J=5.6Hz), 9.02(1H,d,J=5.2Hz)	0.0
	9.32(1H,s), 9.65-9.80(1H,brd),	ĺ
	9.90-10.15(1H,brd).	
	(DMSO-d6): 3.42(3H, s), 3.36-3.58(4H, m),	
VACCC	3.79(3H, s), 3.83-3.95(2H, m), 4.61(1H, m)	
YA0291	7.05(1H, s), 7.07(2H, d, J=8.1Hz), 7.60(2H, d,	379
	J=8.7Hz), 8.22(1H, dd, J=5.1, 1.2Hz), 9.02(1H,	
	d, J=5.4Hz), 9.31(1H, s), 9.58-9.74(2H, m).	

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YA0294	1.31(3H, t, J=6.8 Hz), 3.44-3.59(2H, m), 3.48(3H, s), 3.87-3.97(2H, m), 4.09-4.20(2H, m), 4.80-4.91(1H, m), 7.06(1H, s), 7.09-7.17(2H, m), 7.44(1H, t, J=7.4 Hz), 7.64(1H, d, J=7.5 Hz), 8.23(1H, d, J=5.3 Hz), 9.03(1H, d, J=5.2 Hz), 9.32(1H, s), 9.49-9.60(2H, m)(DMSO-d6)	i
YA0304	(DMSO-d6):3.45(3H,s), 3.64(3H,m), 3.93(3H,m), 4.78(1H,t,J=9.6Hz), 7.13(1H,s), 7.97(2H,d,J=8.7Hz), 8.01(2H,d,J=8.7Hz), 8.43(2H,d,J=6.2Hz), 8.93(2H,d,J=6.2Hz), 10.12(1H,s), 10.70(1H,s).	374
YA0331	(CDCl3):2.00(4H,m), 3.05(1H,t,J=11.7Hz), 3.18-3.30(3H,m), 3.29(4H,m), 3.56(3H,s), 3.62(2H,m), 3.91(1H,d,J=8.4Hz), 6.57(2H,d,J=8.7Hz), 7.31(3H,m), 8.17(1H,dd,J=1.2,5.1Hz), 8.85(1H,d,J=5.1Hz), 9.27(1H,d,J=1.2Hz).	418
YA0337	(CDCl3):3.02(1H,dd,J=10.8,12.6Hz), 3.18(8H,m), 3.56(3H,s), 3.61(1H,t,J=9.0Hz), 3.87(4H,m), 3.95(1H,dd,J=2.7,10.8Hz), 6.93(2H,d,J=8.9Hz), 7.31(1H,s), 7.36(2H,d,J=8.9Hz), 8.16(1H,dd,J=1.5,5.4Hz), 8.85(1H,d,J=5.4Hz), 9.27(1H,d,J=1.5Hz).	434
YA0340	(CDCl3):2.36(3H,s), 2.59(4H,m), 3.02(1H,t,J=11.4Hz), 3.16-3.29(7H,m), 3.26(3H,s), 3.61(2H,m), 3.94(1H,d,J=8.0Hz), 6.94(2H,d,J=8.7Hz), 7.31(1H,s), 7.34(2H,d,J=8.7Hz), 8.16(1H,d,J=5.1Hz), 8.85(1H,d,J=5.1Hz), 9.27(1H,s).	447
YA0361	3.39-3.50(2H, m), 3.47(3H, s), 3.61-3.73(1H, m), 3.78(3H, s), 3.83(3H, s), 3.87-3.92(3H, m), 4.92(1H, t, J=10.5 Hz), 6.99-7.11(3H, m), 7.57(1H, d, J=2.7 Hz), 8.25(1H, dd, J=1.2, 5.1 Hz), 9.03(1H, d, J=4.8 Hz), 9.31(1H, d, J=0.9 Hz), 9.78(1H, d, J=9.0 Hz), 10.21-10.38(1H, m)(DMSO-d6)	409
YA0362	(DMSO-d6): 3.47(3H, s), 3.37-4.04(6H, m), 3.94(6H, s), 5.09(1H, m), 6.82(2H, d, J=8.4Hz), 7.05(1H, s), 7.45(1H, t, J=8.4Hz), 8.22(1H, m), 8.24(1H, dd, J=5.4, 1.5Hz), 9.05(1H, d, J=5.1Hz), 9.32(1H, s), 10.06(1H, m).	409
YA0366	3.38-3.60(4H, m), 3.47(3H, s), 3.88-3.95(2H, m), 3.90(3H, s), 4.86-4.92(1H, m), 6.96-7.01(1H, m), 7.06(1H, s), 7.12(1H, d, J=8.8 Hz), 7.71-7.79(1H, m), 8.23-8.24(1H, m), 9.03(1H, d, J=5.1 Hz), 9.32(1H, d, J=1.2 Hz), 9.55-9.72(2H, m)(DMSO)	397
YA0367/ YA0368	(DMSO-d6):3.30-3.75(7H,m), 3.80-4.00(5H,m), 4.80-5.00(1H,m), 6.93-7.00(1H,m), 7.05(1H,s), 7.11(1H,dd,J=2.4,11.4Hz), 7.84(1H,m), 8.23(1H,d,J=5.1Hz), 9.03(1H,d,J=5.1Hz), 9.31(1H,s), 9.60-9.80(1H,brd), 9.90-10.15(1H,brd).	397

	2 24 2 50/011	
	3.31-3.56(3H, m), 3.45(3H, s), 3.69-3.78(1H, m),	
	$3.90^{-3.99}(2\Pi, \Pi), 3.94(3H, s) 4.95-5.03(1H, m)$	
,YA0370	6.96-7.02(1H, m), 7.03-7.09(2H, m),	397
	7.49-7.56(1H, m), 8.24(1H, d, J=4.4 Hz),	337
	8.51-8.69(1H, m), 9.03(1H, d, J=5.1 Hz),	
	9.32(1H, s), 10.55-10.67(1H, m) (DMSO)	
	2.77(1H, dd, J=10.5, 12.0 Hz), 3.18-3.30(3H, m), 3.61(3H, c), 3.64, 3.74(0H, c)	
	3.61(3H, s), 3.64-3.71(2H, m), 3.86(3H, s),	ĺ
YA0378	4.37(1H, dd, J=2.1, 10.1 Hz), 6.89(1H, d, J=1.7	413
	Hz), 6.99(1H, dd, J=1.6, 8.2 Hz), 7.32(1H, s), 7.50(1H, d, J=8.2 Hz), 9.40(4H), 7.50(1H, s),	1 -10
	7.50(1H, d, J=8.2 Hz), 8.19(1H, d, J=5.2 Hz), 8.86(1H, d, J=5.2 Hz), 9.27(1H, s)(CDCi3)	i
	(CDCl3):2.76(1H,dd,J=10.2,12.3Hz),	
	3.10-3.40(3H,m), 3.55-3.80(5H,m), 3.85(3H,s),	
V4.0000	4.39(1H,dd,J=2.4,10.2Hz), 6.78(1H,d,J=8.7Hz),	
YA0399	7.32(1H,s), 7.39(1H,dd,J=2.7,8.7Hz),	457
ļ	7.72(1H,d,J=2.4Hz), 8.20(1H,dd,J=1.2,5.1Hz),	
	8.87(1H,d,J=5.1Hz), 9.27(1H,d,J=1.2Hz).	
	(CDCl3): 1.98-2.03(4H, m), 2.84(1H, m),	
	3.17-3.32(7H, m), 3.60(3H, s), 3.59-3.71(2H, m),	
YA0408	3.85(3H, s), 4.28(1H, d, 8.4Hz), 6.10(1H, d,	
1 A0406	J=1.8Hz), 6.18(1H, d, J=8.3Hz), 7.29(1H, s),	448
	7.33(1H, d, J=8.4Hz), 8.21(1H, d, J=5.2Hz),	
	8.85(1H, d, J=5.2Hz), 9.27(1H, s).	
	(CDCl3):1.95-2.10(4H,m), 2.95-3.10(1H,m),	
<u> </u>	3.19-3.45(7H,m), 3.59(3H,s), 3.50-3.80(2H m)	
YA0409	3.8U(3H,S), 4.48(1H,dd,J=2.2.10.2H ₇)	
1710403	(0.49(1H,dd,J=3.0.8.9Hz), 6.63-6.87(2H m)	448
	/·34(IΠ,S), 8.20(1H,dd,J=1.4.5.2H _Z)	ĺ
	<u> 8.86(2H,d,J=5.2Hz), 9.27(1H,d,J=1.1Hz)</u>	
	(CDCl3):3.14(2H,m), 3.22(1H,t,J=11.6Hz)	
	3.41(1H,t,J=11.6Hz), 3.82(2H,m), 3.83(3H,s)	
YA0414	3.88(3H,s), 4.58(1H,dd,J=3.1.11.0Hz)	44-
	6.51(2H,m), 7.32(1H,s)	415
	8.19(1H,dd,J=1.5,5.3Hz), 8.86(1H,d,J=5.3Hz),	1
	9.27(1H,d,J=1.5Hz).	ĺ
	(DMSO-d6):3.35-3.70(4H,m), 3.48(3H,s),	
	3.78(3H,s), 3.97(2H,m), 4.70(1H,m),	
YA0423	7.06(1H,t,J=7.7Hz), 7.07(1H,s),	
- 170423	7.15(1H,d,J=7.7Hz), 7.31(1H,d,J=7.7Hz),	455
	7.39(1H,t,J=7.7Hz), 7.61(2H,d,J=8.1Hz),	
	7.70(2H,d,J=8.1Hz), 8.25(1H,d,J=4.5Hz),	
	9.07(1H,d,J=4.5Hz), 9.33(1H,s), 9.66(1H,br s).	
	(DMSO-40):3.01(3H,M), 3./6(3H,s), 3.81/3H e)	
-	4.01(3H,m), 4.69(1H,t,J=9.9Hz),	
YA0425	7.05(2H,d,J=9.0Hz), 7.07(1H,s),	
1710420	7.67(2H,d,J=9.0Hz), 7.76(4H,s),	455
İ	8.24(1H,dd,J=1.2,5.1Hz), 9.03(1H,d,J=5.1Hz), 9.32(1H,d,J=1.2Hz), 9.72(4H,d,J=0.2Hz), 9	
	9.32(1H,d,J=1.2Hz), 9.79(1H,d,J=10.2Hz), 10.07(1H,s).	
	(DMSO-46):3 30-3 70/4H =\ 2 40/011	
	(DMSO-d6):3.30-3.70(4H,m), 3.42(3H,s),	- "]
YA0434	3.96(2H,d,J=13.8Hz), 4.71(1H,t,J=11.3Hz), 7.06(1H s), 7.33(2H t l=2.0Hz), 7.77(2H t l=	
	7.06(1H,s), 7.33(2H,t,J=8.0Hz), 7.77(6H,m), 8.24(1H,d,J=5.4Hz), 9.03(4H,d,J=5.4Hz),	443
	8.24(1H,d,J=5.4Hz), 9.03(1H,d,J=5.4Hz), 9.32(1H,s), 9.80(1H,d,J=8.7Hz), 10.03(1H,s).	}
	10.03(1H,s).	

YA0442	3.43-3.59(2H, m), 3.48(3H, s), 3.63-3.75(2H, m), 3.97-4.01(2H, m), 4.80-4.86(1H, m), 7.06(1H, s), 7.60-7.64(2H, m), 7.86-7.88(1H, m), 7.95-8.00(2H, m), 8.05-8.07(1H, m), 8.24-8.27(2H, m), 9.02(1H, d, J=5.4 Hz), 9.32(1H, s), 10.01(1H, d, J=10.2 Hz), 10.30-10.41(1H, m)(DMSO-d6)	399
YA0517	(CDCl3): 2.97(1H, dd, J=12.3, 10.5Hz), 3.18-3.28(5H, m), 3.58(3H, s), 3.59(1H, m), 3.77(1H, m), 4.27(1H, dd, 10.2, 2.7Hz), 4.62(2H, m), 6.89(1H, t, J=7.5Hz), 7.16(1H, m), 7.27(1H, m), 7.28(1H, s), 8.26(1H, dd, J=5.4, 1.5Hz), 8.86(1H, d, J=5.4Hz), 9.26(1H, s).	391
YA0864	(DMSO-d6):3.15-3.35(1H,m), 3.38-3.50(4H,m), 3.70-4.30(9H,m), 5.00-5.20(1H,m), 7.00-7.10(2H,m), 7.10-7.20(1H,m), 7.30-7.50(6H,m), 8.15-8.20(1H,m), 8.30-8.40(1H,brd), 9.05(1H,d,J=5.1Hz), 9.31(1H,d,J=0.9Hz).	487
YA1074	(CDCl3):1.80-2.40(3H, m), 3.12-3.34(4H, m), 3.39-4.20(7.6H, m), 4.50-5.07(0.6H, m), 5.30-5.60(0.7H, m), 5.72-6.05(0.1H, m), 6.52-6.80(2H, m), 6.82-7.22(1H, m), 7.28(1H, s), 8.18(1H, d,J=4.8Hz), 8.89(1H, d,J=5.1Hz), 9.28(1H, d,J=1.2Hz)	439
YA1339	(CDCl3):2.50-2.62(1H,m), 2.80-2.95(1H,m), 3.02-3.20(1H,m), 3.25-3.40(1H,m), 3.50-3.74(5H,m), 3.75-3.80(1H,m), 3.85(3H,s), 6.60-6.80(2H,m), 7.30(1H,s), 7.48(1H,t,J=8.4Hz), 8.19(1H,dd,J=1.2,5.1Hz), 8.86(1H,d,J=5.1Hz), 9.27(1H,d,J=1.5Hz).	411
YA1340/ YA1341	(DMSO-d6):2.55(3H,d,J=3.9Hz), 3.40-3.80(3H,m), 3.45(3H,s), 3.80-4.15(6H,m), 4.85-5.15(1H,m), 6.90-7.05(1H,m), 7.05(1H,s), 7.13(1H,dd,J=2.4,11.4Hz), 8.21(1H,dd,J=1.2,5.1Hz), 9.04(1H,d,J=5.1Hz), 9.31(1H,d,J=1.2Hz), 11.50-12.20(1H,brd).	411
YA1534	2.90-3.10 (1H, m), 3.15-3.35 (3H, m), 3.50-3.70 (5H, m), 3.80-4.05 (7H, m), 6.87 (1H, d, J = 8.1 Hz), 6.90-7.10 (2H, m), 7.31 (1H, s), 8.16 (1H, d, J = 4.6 Hz), 8.85 (1H, d, J = 5.0 Hz), 9.27 (1H, s) (CDCI3)	408
YA1535	3.45 (3H, s), 3.46 (2H, m), 3.64 (m, 2H), 3.91 (2H, t, J = 16.1 Hz), 4.68 (1H, t, J = 10.5 Hz), 7.05 (1H, s), 7.59 (2H, d, J = 8.4 Hz), 7.79 (2H, d, J = 8.4 Hz), 8.23 (1H, dd, J = 5.1, 1.2 Hz), 9.02 (1H, d, J = 5.1 Hz), 9.31 (1H, d, J = 1.2 Hz), 10.00 (1H, d, J = 8.7 Hz), 10.49 (1H, br s) (DMSO-6)	383
YA1536	3.45 (3H, s), 3.46 (2H, m), 3.64 (m, 2H), 3.91 (2H, t, J = 16.1 Hz), 4.68 (1H, t, J = 10.5 Hz), 7.05 (1H, s), 7.59 (2H, d, J = 8.4 Hz), 7.79 (2H, d, J = 8.4 Hz), 8.23 (1H, dd, J = 5.1, 1.2 Hz), 9.02 (1H, d, J = 5.1 Hz), 9.31 (1H, d, J = 1.2 Hz), 10.00 (1H, d, J = 8.7 Hz), 10.49 (1H, br s) (DMSO-6)	383

YA1537	2.39(3H, s), 2.60(4H, t, J=4.6Hz), 3.37(4H, t, J=4.8Hz), 3.53(3H, s), 7.27(1H, s), 8.18(1H, dd, J=1.2, 5.4Hz), 8.87(1H, d, J=5.1Hz), 9.28(1H, s)(CDCI3)	1
YA1538	2.64-2.74(1H, br.s), 2.66(2H, t, J=5.3Hz), 2.73(4H, t, J=4.4Hz), 3.39(4H, t, J=4.0Hz), 3.54(3H, s), 3.69-3.70(2H, m), 7.26(1H, s), 8.18(1H, d, J=5.0Hz), 8.88(1H, t, J=5.0Hz), 9.28(1H, s)(CDCI3)	316
YA1539	1.10(6H, t, J=6.6Hz), 2.71(4H, t, J=4.9Hz), 2.77(1H, m), 3.36(4H, t, J=4.9Hz), 3.54(3H, s), 7.27(1H, s), 8.18(1H, dd, J=1.1, 5.2Hz), 8.87(2H, d, J=5.1Hz), 9.27(1H, s)(CDCI3)	314
YA1540	1.15(6H, d, J=6.2Hz), 1.50(1H, br.s), 2.61(2H, dd, J=1.6, 12.4Hz), 3.06-3.16(2H, m), 3.49(2H, d, J=13.0Hz), 3.52(3H, s), 7.27(1H, s), 8.16(1H, dd, J=1.3, 5.0Hz), 8.88(1H, d, J=5.0Hz), 9.27(1H, d, J=1.3Hz)(CDCI3)	300
YA1541	2.98 (1H, t, J = 11.5 Hz), 3.20 (3H, m), 3.57 (3H, s), 3.58 (2H, m), 4.02 (1H, dd, J = 10.5, 2.2 Hz), 7.27 (1H, s), 7.29 (1H, d, J = 8.3 Hz), 7.46 (1H, d, J = 8.3 Hz), 7.61 (1H, s), 8.13 (1H, d, J = 5.2 Hz), 8.86 (1H, d, J = 5.2 Hz), 9.27 (1H, s) (CDCI3)	417
YA1542	3.44(3H, s), 3.62-3.73(2H, m), 3.86-3.93(2H, m), 4.66(1H, m), 7.05(1H, s), 7.45(1H, dd, J=8.4, 8.4Hz), 7.67(1H, d, J=8.4Hz), 7.81(1H, d, J=8.4Hz), 8.04(1H, s), 8.25(1H, dd, J=5.4, 1.5Hz), 9.02(1H, d, J=5.4 Hz), 8.18(1H, dd, J=5.4, 1.2 Hz), 8.99(1H, d, J=5.1 Hz), 9.32(1H, d, J=1.5 Hz), 10.13(1H, m), 10.67(1H, m) (DMSO)	427
YA1543	(1H, dd, J = 13.5, 8.9 Hz), 3.47 (3H, s), 3.79 (1H, dd, J = 13.5, 3.9 Hz), 4.73 (1H, d, J = 17.1 Hz), 4.22 (1H, d, J = 17.1 Hz), 4.82 (1H, dd, J = 8.9, 3.9 Hz), 6.08 (1H, s), 7.31 (2H, d, J = 8.4 Hz), 7.42 (2H, d, J = 8.4 Hz), 8.14 (1H, d, J = 5.1, 1.5 Hz), 8.90 (1H, d, J = 5.1 Hz), 9.29 (1H, d, J = 1.5 Hz) (CDCI3)	397
YA1544	1.97 (4H, m), 3.26 (4H, m), 3.39 (2H, m), 3.44 (3H, s), 3.60 (2H, m), 3.79 (1H, d, J = 13.5 Hz), 3.91 (1H, d, J = 13.8 Hz), 4.48 (1H, t, J = 10.1 Hz), 6.66 (2H, d, J = 8.4 Hz), 7.04 (1H, s), 7.51 (2H, d, J = 8.4 Hz), 8.21 (1H, d, J = 5.1 Hz), 9.02 (1H, d, J = 5.1 Hz), 9.31 (1H, s), 9.70 (1H, d, J = 10.8 Hz), 10.07 (1H, br s) (DMSO-d6)	418
YA1545	3.21 (4H, m), 3.42 (2H, m), 3.44 (3H, s), 3.62 (2H, m), 3.79 (4H, m), 3.90 (2H, t, J = 14.6 Hz), 4.54 (1H, t, J = 10.5 Hz), 7.05 (1H, s), 7.13 (2H, d, J = 8.7 Hz), 7.62 (2H, d, J = 8.7 Hz), 8.22 (1H, d, J = 4.8 Hz), 9.02 (1H, d, J = 4.8 Hz), 9.31 (1H, s), 9.80 (1H, d, J = 9.3 Hz), 10.23 (1H, br s) (DMSO-d6)	434

YA1546	2.80 (3H, d, J = 4.5 Hz), 3.26 (4H, m), 3.44 (3H, s), 3.45 (4H, m), 3.60 (2H, m), 3.80 (1H, d, J = 3.5 Hz), 3.90 (3H, m), 4.54 (1H, t, J = 10.5 Hz), 7.04 (1H, s), 7.10 (2H, d, J = 8.7 Hz), 7.62 (2H, d, J = 8.7 Hz), 8.20 (1H, dd, J = 5.1, 1.2 Hz), 9.02 (1H, d, J = 5.1 Hz), 9.32 (1H, d, J = 1.2 Hz), 9.86 (1H, d, J = 10.2 Hz), 10.33 (1H, br s), 11.15 (1H, br s) (DMSO-d6)	447
YA1547	2.28(3H, s), 3.07(4H, t, J=4.7Hz), 3.37(4H, t, J=4.8Hz), 3.75(3H, s), 5.76(1H, s), 7.26-7.33(2H, m), 7.45(2H, dd, J=7.8, 7.8Hz), 7.79(2H, d, J=7.8Hz), 8.14(1H, d, J=5.4Hz), 8.87(1H, dd, J=7.8, 7.8Hz), 9.28(1H, d, J=1.2Hz)(CDCI3)	428
YA1548	2.37 (1H, m), 2.43 (1H, m), 2.80 (3H, d, J = 5.2 Hz), 2.81 (3H, d, J = 5.2 Hz), 3.28 (1H, q, J = 8.8 Hz), 3.40 (2H, m), 3.44 (3H, s), 3.57 (5H, m), 3.79 (1H, d, J = 11.4 Hz), 3.97 (2H, m), 4.50 (1H, t, J = 10.0 Hz), 6.69 (2H, d, J = 8.4 Hz), 7.05 (1H, s), 7.54 (2H, d, J = 8.4 Hz), 8.20 (1H, dd, J = 4.8, 1.2 Hz), 9.03 (1H, d, J = 4.8 Hz), 9.32 (1H, d, J = 1.2 Hz), 9.71 (1H, br s), 10.06 (1H, br s), 11.35 (1H, br s) (DMSO-d6)	461
YA1549	2.33 (1H, m), 2.41 (1H, m), 2.79 (3H, d, J = 4.8 Hz), 2.81 (3H, d, J = 4.8 Hz), 3.28 (1H, d, J = 8.4 Hz), 3.39 (2H, m), 3.44 (3H, s), 3.57 (5H, m), 3.79 (1H, d, J = 13.3 Hz), 3.97 (2H, m), 4.50 (1H, t, J = 11.6 Hz), 6.69 (2H, d, J = 8.4 Hz), 7.04 (1H, s), 7.55 (2H, d, J = 8.4 Hz), 8.21 (2H, d, J = 5.2 Hz), 9.02 (2H, d, J = 5.2 Hz), 9.02 (2H, d, H, br s), 10.14 (1H, br s), 11.45 (1H, br s) (DMSO-d6)	461
YA1550	3.47 (3H, s), 3.60 (2H, m), 3.76 (2H, m), 3.81 (3H, s), 3.94 (2H, m), 4.68 (1H, m), 7.05 (2H, d, J = 8.6 Hz), 7.06 (1H, s), 7.67 (2H, d, J = 8.6 Hz), 7.76 (4H, s), 8.25 (1H, d, J = 5.0 Hz), 9.03 (1H, d, J = 5.0 Hz), 9.32 (1H, s) (DMSO-d6)	455
YA1551	1.18 (1H, m), 1.40 (4H, m), 1.70 (1H, m), 1.80 (4H, m), 2.55 (1H, m), 3.43 (2H, m), 3.45 (3H, s), 3.60 (2H, m), 3.91 (2H, m), 4.60 (1H, t, J = 10.8 Hz), 7.05 (1H, s), 7.35 (2H, d, J = 8.0 Hz), 7.64 (2H, d, J = 8.0 Hz), 9.03 (1H, d, J = 4.8 Hz), 9.31 (1H, s), 9.80 (1H, d, J = 8.8 Hz), 10.24 (1H, m) (DMSO-d6)	431
YA1552	3.02(4H, m), 3.23(4H, m), 3.49(3H, s), 7.08-7.67(10H, m), 8.15(1H, d, J=5.1Hz), 8.87(1H, d, J=5.1Hz), 9.27(1H, s)(CDCI3)	424
YA1553	2.90 (1H, dd, J = 13.2, 9.6 Hz), 3.16 (2H, m), 3.24 (1H, d, 14.4 Hz), 3.31 (3H, s), 3.34 (1H, d, J = 13.6 Hz), 3.47 (1H, t, J = 13.2 Hz), 3.80 (3H, m), 6.97 (1H, s), 7.38 (2H, m), 7.45 (3H, m), 7.64 (1H, dd, J = 5.2, 1.2 Hz), 8.94 (1H, d, J = 5.2 Hz), 9.28 (1H, d, J = 1.2 Hz), 9.54 (1H, br s), 9.78 (1H, br s) (DMSO-d6)	363

YA1554	2.95 (1H, m), 3.29-3.05 (3H, m), 3.34 (3H, s), 3.35 (1H, m), 3.44 (1H, t, J = 12.4 Hz), 3.79 (3H, m), 6.99 (1H, s), 7.40 (2H, d, J = 8.4 Hz), 7.51 (2H, d, J = 8.4 Hz), 7.76 (1H, dd, J = 4.8, 1.2 Hz), 8.96 (1H, d, J = 4.8 Hz), 9.29 (1H, d, J = 1.2 Hz), 9.38 (1H, br s), 9.71 (1H, br s) (DMSO-d6)	397
YA1555	1.05 (2H, brs), 1.90 (4H, brs), 3.44 (6H, m), 3.45 (3H, s), 3.61 (2H, m), 3.88 (1H, d, J = 13.6 Hz), 3.94 (1H, d, J = 13.6 Hz), 4.66 (1H, t, J = 8.8 Hz), 7.05 (1H, s), 7.82 (4H, brs), 8.23 (1H, dd, J = 5.2, 1.2 Hz), 9.02 (1H, d, J = 5.2 Hz), 9.31 (1H, d, J = 1.2 Hz), 9.89 (1H, br s), 10.37 (1H, br s) (DMSO-d6)	432
YA1556	3.42 (2H, m), 3.45 (3H, s), 3.56 (2H, m), 3.85 (1H, d, J = 13.2 Hz), 3.93 (1H, d, J = 14.0 Hz), 4.55 (1H, t, J = 10.8 Hz), 6.94 (1H, br s), 7.05 (1H, s), 7.15 (4H, br s), 7.31 (2H, br s), 7.57 (2H, br s), 8.22 (1H, d, J = 4.8 Hz), 9.03 (1H, d, J = 4.8 Hz), 9.32 (1H, s), 9.66 (1H, br s), 9.90 (1H, br s) (DMSO-d6)	509
YA1557	1.40 (1H, m), 1.78 (8H, m), 2.18 (2H, d, J = 11.2 Hz), 2.78 (2H, m), 2.91 (2H, m), 3.30 (1H, m), 3.40 (3H, m), 3.44 (3H, s), 3.58 (2H, m), 3.82 (1H, d, J = 13.3 Hz), 3.93 (3H, m), 4.53 (1H, m), 7.05 (1H, s), 7.11 (2H, d, J = 8.8 Hz), 7.57 (2H, d, J = 8.8 Hz), 8.21 (1H, d, J = 5.2 Hz), 9.02 (1H, d, J = 5.2 Hz), 9.32 (1H, s), 9.73 (1H, d, J = 8.4 Hz), 10.09 (1H, br s), 10.39 (1H, br s) (DMSO-d6)	515
YA1558	2.84-2.91(1H, m), 3.01-3.05(4H, m), 3.22(3H, s), 3.46(3H, s), 3.68-3.72(2H, m), 4.07-4.11(1H, m), 6.95(1H, s), 7.78(2H, d, J=7.2Hz), 7.93(2H, d, J=7.2Hz), 8.31(1H, d, J=4.2Hz), 8.99(1H, d, J=4.2Hz), 9.28(1H, s)(DMSO-d6)	427
YA1559	1.84 (4H, m), 1.97 (2H, m), 2.13 (2H, m), 2.79 (2H, t, J = 11.6 Hz), 3.04 (2H, m), 3.24 (1H, m), 3.40 (2H, m), 3.44 (3H, s), 3.59 (2H, m), 3.80 (1H, d, J = 14.0 Hz), 3.91 (3H, m), 4.53 (1H, t, J = 11.2 Hz), 7.05 (1H, s), 7.13 (2H, d, J = 8.4 Hz), 7.58 (2H, d, J = 8.4 Hz), 8.22 (1H, d, J = 5.2 Hz), 9.02 (1H, d, J = 5.2 Hz), 9.31 (1H, s), 9.75 (1H, d, J = 8.4 Hz), 10.10 (1H, br s), 11.04 (1H, br s) (DMSO-d6)	501
YA1560	1.71(2H, m), 2.12(2H, m), 2.74(6H, d, J=4.8 Hz), 2.74-2.80(3H, m), 3.30-3.96(8H, m), 3.40(3H, s), 4.54(1H, m), 7.05(1H, s), 7.10(2H, d, J=9.0 Hz), 7.54(2H, d, J=9.0 Hz), 8.21(1H, dd, J=5.1, 1.2 Hz), 9.03(1H, d, J=5.4 Hz), 9.32(1H, s), 9.68(1H, m), 9.92(1H, m), 10.54(1H, m), (DMSO-d6)	475
YA1561	1.51(2H, m), 1.84(2H, m),3.00-3.20(3H, m), 3.38(3H, s), 3.38-3.91(8H, m), 4.55(1H, m), 7.05(1H, s), 7.18(2H, d, J=9.0 Hz), 7.51(2H, d, J=9.0 Hz), 8.21(1H, d, J=6.0 Hz), 9.02(1H, d, J=5.1 Hz), 9.31(1H, s), 9.54-9.62(3H, m), (DMSO-d6)	448

1.89-2.05(2H, m), 2.65-3.20(5H, m), 3.25-3.82(5H, m), 3.4(13H, s), 4.39(1H, m), 4.91(1H, m), 6.49(2H, d, J = 8.4 Hz), 6.96(1H, s), 7.25(2H, d, J=8.4 Hz), 8.18(1H, dd, J=4.2, 0.9 Hz), 8.99(1H, d, J=5.1 Hz), 9.28(1H, s), (DMSO-d6) 1.06 (1H, m), 1.30 (2H, m), 1.43 (2H, m), 1.60 (2H, m), 1.79 (3H, m), 2.97 (3H, m), 3.45 (3H, s), 3.60 (2H, m), 3.80 (3H, s), 3.90 (2H, m), 4.63 (1H, m), 7.05 (1H, s), 7.70 (4H, br s), 8.23 (1H, d, J = 5.2 Hz), 9.03 (1H, d, J = 5.2 Hz), 9.32 (1H, s), 9.75 (1H, br s) (DMSO-d6) 2.99 (6H, m), 3.44 (1H, m), 3.45 (3H, s), 3.57 (3H, m), 3.82 (1H, d, J = 13.2 Hz), 4.92 (1H, d, J = 14.4 Hz), 4.55 (1H, d, J = 13.2 Hz), 4.92 (1H, d, J = 5.2 Hz), 9.03 (1H, d, J = 5.2 Hz), 9.32 (1H, s), 7.35-7.39(5H, m), 3.44-3.89(15H, m), 4.51-4.55 (1H, d, J = 5.2 Hz), 9.32 (1H, s), 9.76-9.92(2H, m), 7.53 (2H, d, J = 7.2Hz), 8.20 (1H, d, J = 4.2Hz), 9.01 (1H, d, J = 4.2Hz), 9.31 (1H, s), 9.76-9.92(2H, m), 7.53 (2H, d, J = 7.2Hz), 8.20 (1H, d, J = 4.2Hz), 9.01 (1H, d, J = 4.2Hz), 9.32 (1H, s), 9.76-9.92(2H, m), 7.50 (2H, d, J = 7.2Hz), 8.21 (1H, d, J = 4.2Hz), 9.02 (1H, d, J = 4.2Hz), 9.32 (1H, s), 9.77-9.80 (1H, m), 7.50 (2H, d, J = 7.2Hz), 8.21 (1H, d, J = 4.2Hz), 9.02 (1H, d, J = 4.2Hz), 9.32 (1H, s), 9.77-9.80 (1H, br), 10.84-10.88 (1H, m), 7.05-7.12 (3H, m), 7.60 (2H, d, J = 7.2Hz), 8.21 (1H, d, J = 4.2Hz), 9.02 (1H, d, J = 4.2Hz), 9.32 (1H, s), 9.77-9.80 (1H, br), 10.16-10.20 (1H, br), 10.49-10.52 (1H, br), 10.16-10.20 (1H, br), 10.49-10.52 (1H, br), 10.16-10.20 (1H, br), 10.49-10.52 (1H, br), 3.65 (3H, m), 3.25-3.82 (5H, m), 3.65 (3H, s), 4.39 (1H, m), 4.94 (1H, m), 6.49 (2H, d, J = 4.2Hz), 9.18-9.22 (1H, d, J = 4.2Hz), 9.02 (1H, d, J = 4.2Hz), 9.02 (1H, d, J = 4.2Hz), 9.26 (1H, s), 7.25 (2H, d, J = 8.4 Hz), 8.16 (1H, dd, J = 5.4, 0.9 Hz), 8.99 (1H, d, J = 6.3 Hz), 2.31 (2H, dd, J = 5.4, 0.9 Hz), 8.99 (1H, d, J = 6.3 Hz), 2.31 (2H, dd, J = 5.4, 0.9 Hz), 8.99 (1H, d, J = 6.3 Hz), 2.31 (2H, dd, J = 5.1, 12), 9.26 (1H, s), 9.26 (1H, s), 7.34 (2H, d, J = 8.4 Hz), 6.96 (1H, s), 9.26 (1H, s), 9.26 (1H, s), 9.26			
YA1563 YA1563 YA1563 YA1564 YA1565 YA1566 YA1567 YA1567 YA1567 YA1567 YA1567 YA1568 YA	YA1562	7.25(2H, d, J=8.4 Hz), 6.96(1H, s) 7.25(2H, d, J=8.4 Hz), 8.18(1H, dd, J=4.2, 0.9 Hz), 8.99(1H, d, J=5.1 Hz), 9.28(1H, s), (DMSO-d6)	434
YA1564 YA1564 YA1564 HZ, 4.55 (1H, t, J = 10.0 Hz), 7.05 (1H, s), 7.06 (2H, br s), 7.61 (2H, br s), 8.22 (1H, d, J = 5.2 Hz), 9.03 (1H, dr s), 10.11 (1H, br s), 0DMSO-d6) 3.20-3.22(4H, m), 3.44-3.89(15H, m), 4.51-4.55(1H, m), 5.11(2H, s), 7.04-7.07(3H, m), 7.35-7.39(5H, m), 7.53(2H, d, J=7.2Hz), 8.20(1H, d, J=4.2Hz), 9.01(1H, d, J=4.2Hz), 9.31(1H, s), 9.78-9.92(2H, br)(DMSO-d6) 1.33(6H, d, J=6.8Hz), 3.02-3.55(13H, m), 3.89-3.93(5H, m), 4.52-4.55(1H, m), 6.99-7.13(3H, m), 7.60(2H, d, J=7.2Hz), 8.21(1H, d, J=4.2Hz), 9.02(1H, d, J=4.2Hz), 9.32(1H, s), 9.67-10.15(3H, br), 10.84-10.88(1H, br)(DMSO-d6) 3.17-3.26(8H, m), 3.44-3.55(6H, m), 3.80-3.94(9H, m), 4.50-4.57(1H, m), 7.05-7.12(3H, m), 7.60(2H, d, J=7.2Hz), 8.21(1H, d, J=4.2Hz), 9.02(1H, d, J=4.2Hz), 9.32(1H, s), 9.77-9.80(1H, br), 10.16-10.20(1H, br), 10.49-10.52(1H, br)(DMSO-d6) 3.18-3.24(3H, m), 3.40-3.59(13H, m), 4.02-4.06(2H, m), 4.51-4.55(1H, m), 7.03-7.11(3H, m), 7.52(2H, d, J=7.2Hz), 8.21(1H, d, J=4.2Hz), 9.02(1H, d, J=4.2Hz), 9.18-9.22(1H, br), 9.38(1H, s), 9.72-9.78(1H, br), 10.04-10.10(1H, br)(DMSO-d6) 431-63-82(5H, m), 3.65(3H, s), 4.39(1H, m), 4.94(1H, m), 6.49(2H, d, J=8.4 Hz), 6.96(1H, s), 7.25(2H, d, J=8.4 Hz), 8.16(1H, dd, J=5.4, 0.9 Hz), 8.99(1H, d, J=5.1 Hz), 9.29(1H, d, J=8.7 Hz), 8.39(1H, dd, J=10.2, 2.1 Hz), 6.94(2H, d, J=8.7 Hz), 7.31(1H, s), 7.34(2H, d, J=8.7 Hz), 8.16(1H, dd, J=5.1, 1.2 Hz), 8.86(1H, d, J=5.1, 1.2 Hz), 8.86(1H, d, J=5.1, 1.2 Hz), 8.86(1H, d, J=5.1, Hz)	YA1563	(2H, m), 1.79 (3H, m), 2.97 (3H, m), 3.45 (3H, s), 3.60 (2H, m), 3.80 (3H, s), 3.90 (2H, m), 4.63 (1H, m), 7.05 (1H, s), 7.70 (4H, br s), 8.23 (1H, d, J = 5.2 Hz), 9.03 (1H, d, J = 5.2 Hz), 9.32 (1H, s), 9.75 (1H, br s) (DMSO-d6)	460
YA1565 YA1565 YA1565 YA1566 A. J=4.2Hz), 9.01(1H, d, J=4.2Hz), 9.31(1H, s), 9.78-9.92(2H, br)(DMSO-d6) 1.33(6H, d, J=6.8Hz), 3.02-3.55(13H, m), 3.89-3.93(5H, m), 7.60(2H, d, J=7.2Hz), 8.21(1H, d, J=4.2Hz), 9.32(1H, s), 9.67-10.15(3H, br), 10.84-10.88(1H, br)(DMSO-d6) 3.17-3.26(8H, m), 3.44-3.55(6H, m), 3.80-3.94(9H, m), 4.50-4.57(1H, m), 7.05-7.12(3H, m), 7.06(2H, d, J=7.2Hz), 8.21(1H, d, J=4.2Hz), 9.02(1H, d, J=4.2Hz), 9.32(1H, s), 9.77-9.80(1H, br), 10.16-10.20(1H, br), 10.49-10.52(1H, br)(DMSO-d6) 3.18-3.24(3H, m), 3.40-3.59(13H, m), 4.02-4.06(2H, m), 4.51-4.55(1H, m), 7.03-7.11(3H, m), 7.52(2H, d, J=7.2Hz), 8.21(1H, d, J=4.2Hz), 9.02(1H, d, J=4.2Hz), 9.18-9.22(1H, br), 9.38(1H, s), 9.72-9.78(1H, br), 10.04-10.10(1H, br)(DMSO-d6) YA1568 YA1569 YA1569 YA1569 YA1569 YA1569 YA1569 YA1569 YA1569 YA1570 YA1570 YA1570 YA1570 YA1570 YA1570 YA1570 YA1570 YA1570 YA1570 YA1570 YA1570 A. J=4.2Hz), 5.11(2H, d, J=8.7 Hz), 8.87(1H, dd, J=5.1, Hz), 9.29(1H, dd, J=5.1, Hz), 9.29(1H, dd, J=5.1, Hz), 9.29(1H, dd, J=5.1, Hz), 9.39(1H, dd, J=5.1, Hz), 8.86(1H, dd, J=5.1, Hz), 8.86(1H, dd, J=5.1, Hz), 8.86(1H, dd, J=5.1, Hz), 8.86(1H, dd, J=5.1, Hz), 9.29(1H, dd, J=5.1, Hz), 8.86(1H, dd, J=5.1, Hz), 9.886(1H, dd, J=5	YA1564	(1H, d, J = 13.2 Hz), 4.92 (1H, d, J = 14.4 Hz), 4.55 (1H, t, J = 10.0 Hz), 7.05 (1H, s), 7.06 (2H, br s), 7.61 (2H, br s), 8.22 (1H, d, J = 5.2 Hz), 9.03 (1H, d, J = 5.2 Hz), 9.32 (1H, s), 9.73 (1H, br s), 10.11 (1H, br s) (DMSO-d6)	
YA1566 YA1566 YA1566 3.89-3.93(5H, m), 4.52-4.55(1H, m), 6.99-7.13(3H, m), 7.60(2H, d, J=7.2Hz), 8.21(1H, d, J=4.2Hz), 9.02(1H, d, J=4.2Hz), 9.32(1H, s), 9.67-10.15(3H, br), 10.84-10.88(1H, br)(DMSO-d6) 3.17-3.26(8H, m), 3.44-3.55(6H, m), 3.80-3.94(9H, m), 4.50-4.57(1H, m), 7.05-7.12(3H, m), 7.60(2H, d, J=7.2Hz), 8.21(1H, d, J=4.2Hz), 9.02(1H, d, J=4.2Hz), 9.32(1H, s), 9.77-9.80(1H, br), 10.16-10.20(1H, br), 10.49-10.52(1H, br)(DMSO-d6) 3.18-3.24(3H, m), 3.40-3.59(13H, m), 4.02-4.06(2H, m), 4.51-4.55(1H, m), 7.03-7.11(3H, m), 7.52(2H, d, J=7.2Hz), 8.21(1H, d, J=4.2Hz), 9.02(1H, d, J=4.2Hz), 9.18-9.22(1H, br), 9.38(1H, s), 9.72-9.78(1H, br), 10.04-10.10(1H, br)(DMSO-d6) 1.90-2.02(2H, m), 2.80-3.06(5H, m), 3.25-3.82(5H, m), 3.65(3H, s), 4.39(1H, m), 4.94(1H, m), 6.49(2H, d, J= 8.4 Hz), 6.96(1H, s), 7.25(2H, d, J=8.4 Hz), 8.16(1H, dd, J=5.4, 0.9 Hz), 8.99(1H, d, J=5.1 Hz), 9.29(1H, s) (DMSO-d6) 1.15(6H, d, J= 6.3 Hz), 2.31(2H, dd, J= 11.1 Hz), 2.98-3.23(6H, m), 3.48-3.62(4H, m), 3.56(3H, s), 3.94(1H, dd, J= 10.2, 2.1 Hz), 6.94(2H, d, J= 8.7 Hz), Hz), 7.31(1H, s), 7.34(2H, d, J=8.7 Hz), 8.16(1H, dd, J=5.1, 1.2 Hz), 8.86(1H, d, J=5.1 Hz)	YA1565	3.20-3.22(4H, m), 3.44-3.89(15H, m), 4.51-4.55(1H, m), 5.11(2H, s), 7.04-7.07(3H, m), 7.35-7.39(5H, m), 7.53(2H, d, J=7.2Hz), 8.20(1H, d, J=4.2Hz), 9.01(1H, d, J=4.2Hz), 9.31(1H, s)	
YA1567 YA1567 YA1567 YA1567 YA1567 YA1568 YA1568 YA1568 YA1568 YA1568 YA1568 YA1568 YA1569 YA1569 YA1569 YA1569 YA1569 YA1569 YA1569 YA1569 YA1570	YA1566	3.89-3.93(5H, m), 4.52-4.55(1H, m), 6.99-7.13(3H, m), 7.60(2H, d, J=7.2Hz), 8.21(1H, d, J=4.2Hz), 9.02(1H, d, J=4.2Hz), 9.32(1H, s), 9.67-10.15(3H, br), 10.84-10.88(1H, br)(DMSO-d6)	475
YA1568 4.02-4.06(2H, m), 4.51-4.55(1H, m), 7.03-7.11(3H, m), 7.52(2H, d, J=7.2Hz), 8.21(1H, d, J=4.2Hz), 9.02(1H, d, J=4.2Hz), 9.18-9.22(1H, br), 9.38(1H, s), 9.72-9.78(1H, br), 10.04-10.10(1H, br)(DMSO-d6) 1.90-2.02(2H, m), 2.80-3.06(5H, m), 3.25-3.82(5H, m), 3.65(3H, s), 4.39(1H, m), 4.94(1H, m), 6.49(2H, d, J= 8.4 Hz), 6.96(1H, s), 7.25(2H, d, J=8.4 Hz), 8.16(1H, dd, J=5.4, 0.9 Hz), 8.99(1H, d, J=5.1 Hz), 9.29(1H, s) (DMSO-d6) 1.15(6H, d, J= 6.3 Hz), 2.31(2H, dd, J= 11.1 Hz), 2.98-3.23(6H, m), 3.48-3.62(4H, m), 3.56(3H, s), 3.94(1H, dd, J= 10.2, 2.1 Hz), 6.94(2H, d, J= 8.7 Hz), 7.31(1H, s), 7.34(2H, d, J=8.7 Hz), 8.16(1H, dd, J=5.1, 1.2 Hz), 8.86(1H, d, J=5.1, Hz)	YA1567	3.80-3.94(9H, m), 4.50-4.57(1H, m), 7.05-7.12(3H, m), 7.60(2H, d, J=7.2Hz), 8.21(1H, d, J=4.2Hz), 9.02(1H, d, J=4.2Hz), 9.32(1H, s), 9.77-9.80(1H, br), 10.16-10.20(1H, br), 10.49-10.52(1H, br)(DMSO-d6)	477
YA1569 3.25-3.82(5H, m), 3.65(3H, s), 4.39(1H, m), 4.94(1H, m), 6.49(2H, d, J= 8.4 Hz), 6.96(1H, s), 7.25(2H, d, J=8.4 Hz), 8.16(1H, dd, J=5.4, 0.9 Hz), 8.99(1H, d, J=5.1 Hz), 9.29(1H, s) (DMSO-d6) 1.15(6H, d, J= 6.3 Hz), 2.31(2H, dd, J= 11.1 Hz), 2.98-3.23(6H, m), 3.48-3.62(4H, m), 3.56(3H, s), 3.94(1H, dd, J= 10.2, 2.1 Hz), 6.94(2H, d, J= 8.7 Hz), 7.31(1H, s), 7.34(2H, d, J=8.7 Hz), 8.16(1H, dd, J=5.1, 1.2 Hz), 8.86(1H, d, J=5.1 Hz)	YA1568	4.02-4.06(2H, m), 4.51-4.55(1H, m), 7.03-7.11(3H, m), 7.52(2H, d, J=7.2Hz), 8.21(1H, d, J=4.2Hz), 9.02(1H, d, J=4.2Hz), 9.18-9.22(1H, br), 9.38(1H, s), 9.72-9.78(1H, br), 10.04-10.10(1H, br)(DMSO-d6)	433
YA1570 YA1570 YA1570 YA1570 Z.98-3.23(6H, m), 3.48-3.62(4H, m), 3.56(3H, s), 3.94(1H, dd, J= 10.2, 2.1 Hz), 6.94(2H, d, J= 8.7 Hz), 7.31(1H, s), 7.34(2H, d, J=8.7 Hz), 8.16(1H, dd, J=5.1, 1.2 Hz), 8.86(1H, d, J=5.1 Hz)	YA1569	3.25-3.82(5H, m), 3.65(3H, s), 4.39(1H, m), 4.94(1H, m), 6.49(2H, d, J= 8.4 Hz), 6.96(1H, s), 7.25(2H, d, J=8.4 Hz), 8.16(1H, dd, J=5.4, 0.9 Hz), 8.99(1H, d, J=5.1 Hz), 9.29(1H, s) (DMSO-d6)	434
	YA1570	3.94(1H, dd, J= 10.2, 2.1 Hz), 6.94(2H, d, J= 8.7 Hz), 7.31(1H, s), 7.34(2H, d, J=8.7 Hz), 8.16(1H, dd, J=5.1, 1.2 Hz), 8.86(1H, d, J=5.1, Hz)	461

YA1571	1.27(6H, d, J= 6.0 Hz), 2.43(2H, dd, J= 11.1, 11.1 Hz), 3.02(1H, dd, J=12.0, 10.5 Hz), 3.17-3.23(3H, m), 3.45-3.61(4H, m), 3.56(3H, s), 3.81(1H, m), 3.95(1H, m), 6.92(2H, d, J= 8.7 Hz), 7.32(1H, s), 7.35(2H, d, J=8.7 Hz), 8.17(1H, m), 8.86(1H, d, J=5.1 Hz), 9.26(1H, d, J=1.2 Hz) (CDCI3)	462
YA1572	3.27-3.32(8H, m), 3.47(3H, s), 3.82-3.86(2H, m), 4.36-4.39(1H, m), 7.02(1H, s), 7.72(2H, d, J=7.2Hz), 7.84(2H, d, J=7.2Hz), 7.96-8.04(4H, m), 8.22(1H, d, J=4.2Hz), 9.01(1H, d, J=4.2Hz), 9.30(1H, s)(DMSO-d6)	503
YA1573	2.93-3.10(5H, m), 3.46(3H, s), 3.69-3.71(1H, m), 4.01-4.04(1H, m), 6.99(1H, s), 7.63(2H, d, J=7.2Hz), 7.77(2H, d, J=7.2Hz), 7.88-7.95(4H, m), 8.18(1H, d, J=4.2Hz), 8.99(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO-d6)	450
YA1574	3.08 (1H, dd, J = 12.5, 10.4 Hz), 3.24 (3H, m), 3.59 (3H, s), 3.66 (2H, m), 4.09 (1H, dd, J = 10.4, 2.4 Hz), 7.29 (2H, d, J = 8.3 Hz), 7.33 (1H, s), 7.54 (2H, d, J = 8.3 Hz), 7.56 (2H, d, J = 8.3 Hz), 7.59 (2H, d, J = 8.3 Hz), 8.17 (1H, d, J = 4.9 Hz), 8.86 (1H, d, J = 4.9 Hz), 9.27 (1H, s) (CDCl3)	509
YA1575	3.08 (1H, dd, J = 12.4, 10.0 Hz), 3.25 (3H, m), 3.59 (3H, s), 3.67 (2H, m), 4.11 (1H, dd, J = 10.0, 2.0 Hz), 7.33 (1H, s), 7.57 (2H, d, J = 8.0 Hz), 7.63 (2H, d, J = 8.0 Hz), 7.71 (4H, s), 8.16 (1H, dd, J = 5.2, 1.2 Hz), 8.16 (1H, dd, J = 5.2, 1.2 Hz), 8.86 (1H, d, J = 5.2 Hz), 9.27 (1H, d, J = 1.2 Hz) (CDCI3)	493
YA1576	1.45 (3H, t, J = 7.0 Hz), 3.08 (1H, dd, J = 12.5, 10.6 Hz), 3.22 (3H, m), 3.58 (3H, s), 3.62 (2H, m), 4.05 (1H, m), 4.08 (2H, q, J = 7.0 Hz), 6.98 (2H, d, J = 8.0 Hz), 7.32 (1H, s), 7.49 (2H, d, J = 8.0 Hz), 7.52 (2H, d, J = 8.0 Hz), 7.58 (2H, d, J = 8.0 Hz), 8.17 (1H, d, J = 5.3 Hz), 8.86 (1H, d, J = 5.3 Hz), 9.27 (1H, s), (CDCI3)	469
YA1577	1.83 (4H, m), 1.99 (1H, m), 2.21 (1H, m), 2.61 (4H, m), 2.87 (1H, m), 3.03 (1H, dd, J = 12.0, 10.0 Hz), 3.20 (4H, m), 3.33 (1H, m), 3.42 (1H, m), 3.49 (1H, m), 3.56 (3H, s), 3.61 (2H, m), 3.90 (1H, dd, J = 10.0, 2.0 Hz), 6.55 (2H, d, J = 8.8 Hz), 7.29 (2H, d, J = 8.8 Hz), 7.30 (1H, s), 8.16 (1H, d, J = 5.2 Hz), 8.85 (1H, d, J = 5.2 Hz), 9.26 (1H, s) (CDCI3)	487
YA1578	3.09 (1H, dd, J = 12.4, 10.8 Hz), 3.20 (3H, m), 3.58 (3H, s), 3.64 (2H, m), 3.82 (3H, s), 3.86 (3H, s), 4.05 (1H, dd, J = 10.4, 2.8 Hz), 6.58 (2H, m), 7.24 (2H, m), 7.32 (1H, s), 7.47 (2H, d, J = 8.4 Hz), 7.53 (2H, d, J = 8.4 Hz), 8.17 (1H, dd, J = 5.2, 1.2 Hz), 8.86 (1H, d, J = 5.2 Hz), 9.27 (1H, d, J = 1.2 Hz) (CDCI3)	485

		
YA1579	3.08 (1H, dd, J = 12.5, 10.6 Hz), 3.23 (3H, m), 3.59 (3H, s), 3.66 (2H, m), 3.93 (3H, s), 3.96 (3H, s), 4.07 (1H, dd, J = 10.3, 2.2 Hz), 6.95 (1H, d, J = 8.3 Hz), 7.11 (1H, d, J = 2.0 Hz), 7.16 (1H, dd, J = 8.3, 2.0 Hz), 7.33 (1H, s), 7.52 (1H, d, J = 8.1 Hz), 7.59 (1H, d, J = 8.1 Hz), 8.17 (1H, dd, J = 5.3, 1.2 Hz), 8.85 (1H, d, J = 5.3 Hz), 9.27 (1H, d, J = 1.2 Hz) (CDCI3)	485
YA1580	3.07 (1H, dd, J = 12.4, 10.4 Hz), 3.23 (3H, m), 3.59 (3H, s), 3.65 (2H, m), 4.08 (1H, dd, J = 10.4, 2.0 Hz), 7.32 (1H, s), 7.41 (2H, d, J = 8.4 Hz), 7.52 (2H, d, J = 8.4 Hz), 7.53 (2H, d, J = 8.4 Hz), 7.58 (2H, d, J = 8.4 Hz), 8.16 (1H, d, J = 4.8 Hz), 8.86 (1H, d, J = 4.8 Hz), 9.27 (1H, s) (CDCI3)	459
YA1581	3.09 (1H, dd, J = 12.2, 11.0 Hz), 3.24 (3H, m), 3.59 (3H, s), 3.66 (2H, m), 4.10 (1H, dd, J = 10.4, 2.4 Hz), 7.29 (2H, m), 7.33 (1H, s), 7.44 (2H, d, J = 8.0 Hz), 7.52 (3H, m), 8.18 (1H, dd, J = 5.3, 1.0 Hz), 8.87 (1H, d, J = 5.3 Hz), 9.27 (1H, d, J = 1.0 Hz) (CDCI3)	493
YA1582	3.06 (1H, dd, J = 12.4, 10.4 Hz), 3.25 (3H, m), 3.58 (3H, s), 3.65 (2H, m), 4.09 (1H, dd, J = 10.0, 2.0 Hz), 7.33 (1H, s), 7.42 (1H, dd, J = 8.0, 2.0 Hz), 7.56 (5H, m), 7.68 (1H, d, J = 2.0 Hz), 8.16 (1H, dd, J = 5.2, 1.2 Hz), 8.85 (1H, d, J = 5.2 Hz), 9.27 (1H, d, J = 1.2 Hz) (CDCl3)	493
YA1583	3.06 (1H, dd, J = 12.3, 10.8 Hz), 3.23 (3H, m), 3.59 (3H, s), 3.65 (2H, m), 4.13 (1H, dd, J = 10.2, 2.2 Hz), 7.33 (1H, s), 8.14 (1H, d, J = 5.3 Hz), 8.15 (2H, d, J = 8.4 Hz), 8.78 (1H, s), 8.86 (1H, d, J = 5.3 Hz), 9.27 (1H, s) (CDCI3)	417
YA1584	1.37(6H, d, J= 6.0 Hz), 3.07(1H, dd, J=12.6, 10.8 Hz), 3.20-3.26(3H, m), 3.58(3H, s), 3.65-3.68(2H, m), 4.07(1H, m), 4.59(1H, m), 6.98(2H, d, J= 8.7 Hz), 7.48(1H, s), 7.50-7.61(6H, m), 8.17(1H, d, J=4.8 Hz), 8.86(1H, d, J=5.1 Hz), 9.26(1H, d, J=1.2 Hz) (CDCI3)	483
YA1585	0.99(3H, t, J= 7.5 Hz), 1.47-1.82(4H, m), 3.07(1H, dd, J=12.3, 10.5 Hz), 3.22-3.27(3H, m), 3.58(3H, s), 3.62-3.65(2H, m), 4.03(2H, t, J= 6.3 Hz), 4.04(1H, m), 6.98(2H, d, J= 8.7 Hz), 7.48(1H, s), 7.50-7.59(6H, m), 8.17(1H, dd, J=5.1, 1.2 Hz), 8.86(1H, d, J=5.1 Hz), 9.26(1H, d, J=1.2 Hz) (CDCI3)	497
YA1586	1.28(1H, br.s), 2.51(3H, s), 3.07(1H, dd, J=10.8, 12.6Hz), 3.21-3.28(3H, m), 3.58(3H, s), 3.64(2H, m), 4.08(1H, dd, J=2.5, 19.5Hz), 7.34(2H, d, J=7.8Hz), 7.45-7.67(7H, m), 8.17(1H, d, J=5.4Hz), 8.86(1H, d, J=5.1Hz), 9.27(1H, d, J=1.2Hz)(CDCl3)	470

YA1587	1.86(1H, br.s), 2.40(3H, s), 3.07(1H, dd, J=10.8, 12.6Hz), 3.20-3.27(2H, m), 3.58(3H, s), 3.62-3.68(3H, m), 4.06(1H, dd, J=2.5, 19.5Hz), 7.24-7.27(2H, m), 7.49-7.52(5H, m), 7.60(2H, d, J=8.2Hz), 8.17(1H, d, J=5.4Hz), 8.85(1H, d, J=5.2Hz), 9.27(1H, s)(CDCI3)	438
YA1588	1.29(6H, s), 1.85(1H, br.s), 2.94-2.96(1H, m), 3.08(1H, dd, J=10.8, 12.6Hz), 3.21-3.27(3H, m), 3.59(3H, s), 3.65(2H, m), 4.07(1H, dd, J=2.5, 19.5Hz), 7.28-7.62(9H, m), 8.17(1H, dd, J=1.2, 5.7Hz), 8.86(1H, d, J=5.1Hz), 9.27(1H, d, J=1.2Hz)(CDCI3)	466
YA1589	1.72(1H, br.s), 3.10(1H, m), 3.21-3.24(3H, m), 3.58(3H, s), 3.58-3.73(4H, m), 4.09(1H, dd, J=2.5, 19.5Hz), 6.75(2H, dd, J=2.1, 6.6Hz), 7.23-7.57(7H, m), 8.16(1H, d, J=5.4Hz), 8.86(1H, d, J=5.1Hz), 9.27(1H, d, J=1.2Hz)(CDCI3)	439
YA1590	2.79 (1H, dd, J = 10.5, 12.6 Hz), 3.20-3.40 (3H, m), 3.50-3.80 (5H, m), 4.45 (1H, dd, J = 3.0, 10.2 Hz), 7.10-7.20 (1H, m), 7.30-7.40 (2H, m), 7.58 (1H, dd, J = 0.9, 7.8 Hz), 7.73 (1H, dd, J = 1.5, 7.8 Hz), 8.19 (1H, dd, J = 0.9, 4.8 Hz), 8.85 (1H, d, J = 5.1 Hz), 9.26 (1H, d, J = 0.9 Hz) (CDCI3)	427
YB013	1.31-1.46(1H, m), 1.60-1.96(3H, m), 2.17-2.30(1H, m), 2.89-3.02(2H, m), 3.41(3H, s), 3.61(1H, d, J=12.4 Hz), 3.80(1H, d, J=13.5 Hz), 3.90-4.01(2H, m), 6.89-7.01(3H, m), 6.96(1H, s), 7.27-7.32(2H, m), 8.18(1H, d, J=4.4 Hz), 8.96(1H, d, J=5.0 Hz), 9.28(1H, s)(DMSO-d6)	378
YB014	1.33-1.49(1H, m), 1.60-1.93(3H, m), 2.20-2.32(1H, m), 2.89-3.04(2H, m), 3.41(3H, s), 3.63(1H, d, J=13.3 Hz), 3.82(1H, d, J=11.1 Hz), 4.22-4.37(2H, m), 6.95(1H, s), 7.51-7.56(2H, m), 7.65-7.70(1H, m), 8.00-8.03(2H, m), 8.17(1H, dd, J=1.1, 5.1 Hz), 8.87(1H, d, J=5.1 Hz), 9.28(1H, d, J=1.0 Hz)(DMSO-d6)	406
YB048	(CDCl3): 1.93-2.07(3H, m), 2.38(1H, m), 3.09(1H, m), 3.46(1H, m), 3.57(3H, s), 3.61-3.70(2H, m), 4.05(1H, m), 7.26-7.34(2H, m), 7.59-7.61(2H, m), 7.76(1H, m), 8.16(1H, m), 8.83(1H, m), 9.27(1H, s).	389
YB049	(CDCl3): 1.92-2.08(3H, m), 2.36(1H, m), 3.11(1H, m), 3.44(1H, dd, J=12.9, 10.8Hz), 3.58(3H, s), 3.61-3.70(2H, m), 4.06(1H, m), 7.11(1H, m), 7.28-7.33(2H, m), 7.70(1H, dd, J=8.7, 4.8Hz), 8.15(1H, m), 8.86(1H, d, J=5.4Hz), 9.28(1H, s).	407
YB050	1.93-2.11(3H, m), 2.33-2.45(1H, m), 3.08-3.16(1H, m), 3.46(1H, dd, J=11.4, 12.9 Hz), 3.59(3H, s), 3.62-3.71(2H, m), 4.06(1H, d, J=12.6 Hz), 7.32-7.37(1H, m), 7.32(1H, s), 7.57-7.64(2H, m), 7.75(1H, d, J=8.1 Hz), 8.16(1H, dd, J=1.2, 5.4 Hz), 8.84(1H, d, J=4.8 Hz), 9.28(1H, d, J=0.9 Hz)(CDCl3)	389

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YB051	7.75(1H, d, J=7.8 Hz), 8.16(1H, d, J=5.7 Hz), 8.84(1H, d, J=5.4 Hz), 9.28(1H, d, J=1.2 Hz)(CDCl3)	389
YB130	7.33-7.38(2H, m), 8.25(1H, d, J=5.1 Hz), 9.01(1H, d, J=4.8 Hz), 9.30(1H, s)(DMSO-d6)	366
YB157	7.46(1H,s), 7.48-7.55(1H,m), 8.20(1H,d,J=5.3Hz), 8.88(1H,d,J=5.2Hz), 9.29(1H.s)(CDCl3)	406
YB158	1.91-2.04(2H, m), 2.23(2H, d, J=8.9Hz), 2.44(3H, s), 2.97-3.11(1H, m), 3.16(2H, dd, J=11.1, 12.4Hz), 3.58(3H, s), 3.77(2H, d, J=13.0Hz), 7.12(1H, d, J=8.5Hz), 7.36-7.41(4H, m), 8.20(1H, d, J=5.3Hz), 8.87(1H, d, J=4.8Hz), 9.28(1H, s) (CDCI3)	402
YB159	1.93-2.05(2H, m), 2.23(2H, d, J=12.6Hz), 3.19(3H, m), 3.58(3H, s), 3.81(2H, d, J=13.2Hz), 7.12-7.16(1H, m), 7.26(1H, s), 7.34(1H, s), 7.56(1H, dd, J=2.4, 8.7Hz), 7.77-7.76(1H, m), 8.20(1H, dd, J=1.2, 5.1Hz), 8.87(1H, d, J=5.1Hz), 9.29(1H, s) (CDCI3)	422
YB160	2.01-2.22(5H, m), 3.20(2H, dd, J=1.4, 11.7Hz), 3.47(3H, s), 3.84(2H, d, J=13.2Hz), 6.99(1H, s), 7.32(1H, m), 7.72(1H, dd, J=2.1, 9.0Hz), 8.09(1H, dd, J=2.7, 9.1Hz), 8.27(1H, m), 9.01(1H, d, J=5.1Hz), 9.31(1H, d, J=1.5Hz) (DMSO-d6)	407
YB162	2.13-2.43(4H,m), 3.10-3.38(3H,m), 3.57(3H,s), 3.65-3.83(2H,m), 7.30-7.40(3H,m), 7.45-7.59(1H,m), 7.62-7.80(1H,m), 8.10-8.22(1H,m), 8.88(1H,d,J=5.1Hz), 9.28(1H,s)(CDCI3)	389
YB193	2.22-2.39(4H, m), 3.21-3.35(2H, m), 3.48(3H, s), 3.90(2H, d, J=13.5 Hz), 7.03(1H, s), 7.38-7.43(1H, m), 7.46-7.51(2H, m), 7.59-7.66(2H, m), 8.28(1H, d, J=5.0 Hz), 9.01(1H, d, J=5.0 Hz), 9.30(1H, s)(DMSO-d6)	373
YB251	2.01-2.22(5H, m), 3.20(2H, dd, J=11.4, 11.7Hz), 3.47(3H, s), 3.82(2H, d, J=13.2Hz), 7.32(1H, m), 6.70(1H, s), 7.72(1H, dd, J=2.1, 9.0Hz), 8.09(1H, dd, J=2.7, 9.1Hz), 8.27(1H, m), 9.01(1H, d, J=5.1Hz), 9.31(1H, d, J=1.5Hz)(DMSO-d6)	406

YB252	1.64(2H, m), 2.23(2H, d, J=8.9Hz), 2.44(3H, s), 2.97-3.11(1H, m), 3.16(2H, dd, J=11.1, 11.4Hz), 3.58(3H, s), 3.77(2H, d, J=13.0Hz) 7.12(1H, d, J=8.5Hz), 7.36-7.41(4H, m), 8.20(1H, d, J=5.3Hz), 8.87(1H, d, J=4.8Hz), 9.28(1H, s)(CDCI3)	401
YB253	1.93-2.05(2H, m), 2.23(2H, d, J=12.6Hz), 3.19(3H, m), 3.58(3H, s), 3.81(2H, d, J=13.2Hz), 7.12-7.16(1H, m), 7.26(1H, s) 7.34(1H, s), 7.56(1H, dd, J=2.4, 8.7Hz), 7.11-7.76(1H, m), 8.20(1H, dd, J=1.2, 5.1Hz), 8.87(1H, d, J=5.1Hz), 9.29(1H, s)(CDCl3)	421
YB254	1.72-1.94(8H, m), 2.52(4H, m), 2.97-3.05(3H, m), 3.56(3H, s), 3.61(2H, s), 3.67-3.73(2H, m), 7.21-7.34(4H, m), 8.17(1H, d, J=5.4 Hz), 8.86(1H, d, J=5.1 Hz), 9.27(1H, s) (CDCl3)	431
YB255	1.78 (1H, m), 1.89 (3H, m), 1.96 (3H, m), 2.13 (1H, d, J = 13.6 Hz), 3.46 (2H, m), 3.56 (3H, s), 3.66 (2H, t, J = 6.8 Hz), 3.73 (2H, m), 7.30 (2H, d, J = 8.0 Hz), 7.31 (1H, s), 7.52 (2H, d, J = 5.2 Hz), 8.15 (1H, d, J = 5.2 Hz), 8.86 (1H, d, J = 5.2 Hz), 9.27 (1H, s)	444
YB256	1.46-1.73(9H, m), 2.01(2H, d, J=12.1Hz), 2.56(4H, t, J=5.0Hz), 2.94(2H, td, J=1.3, 12.7Hz), 3.52(3H, s), 3.70(2H, d, J=13.8Hz), 7.27(1H, s), 8.18(1H, dd, J=1.3, 5.3Hz), 8.86(1H, d, J=5.3Hz), 9.27(1H, d, J=1.3Hz)(CDCI3)	354
YB257	1.81-1.88(4H, m), 2.80(1H, m), 2.99-3.08(2H, m), 3.46(3H, s), 3.82-3.86(2H, m), 6.98(1H, s), 7.26-7.43(3H, m), 7.53(1H, s), 8.26(1H, d, J=4.8Hz), 9.01(1H, d, J=4.8 Hz), 9.30(1H, s) (DMSO-d6)	425
YB258	1.80-1.90(4H, m), 2.83(1H, m), 2.99-3.08(2H, m), 3.46(3H, s), 3.81-3.86(2H, m), 6.98(1H, s), 7.26-7.43(3H, m), 7.53(1H, s), 8.26(1H, d, J=4.8Hz), 9.01(1H, d, J=4.8 Hz), 9.30(1H, s) (DMSO-d6)	425
YB259	1.76-1.96(8H, m), 2.67(1H, m), 2.99-3.07(2H, m), 3.16-3.21(4H, m), 3.45(3H, s), 3.79-3.84(2H, m), 6.49(2H, d, J=8.4 Hz) 6.97(1H, s), 7.09(2H, d, J=8.4 Hz), 8.24(1H, d, J=5.1Hz), 9.01(1H, d, J=5.1 Hz), 9.30(1H, s) (DMSO-d6)	417
YB260	1.87-1.99(8H, m), 2.72(1H, m), 2.99-3.09(2H, m), 3.19-3.23(4H, m), 3.46(3H, s), 3.80-3.85(2H, m), 6.38(1H, d, J=7.8 Hz) 6.44(1H, s), 6.53(1H, d, J=7.8 Hz), 6.98(1H, s), 7.09(1H, dd, J=7.8, 7.8Hz), 8.25(1H, d, J=5.1Hz), 9.01(1H, d, J=5.1Hz), 9.30(1H, s) (DMSO-d6)	417
YB261	1.48-1.58(2H, m), 2.00-2.07(2H, m), 2.71(6H, s), 3.07-3.14(2H, m), 3.34-3.36(1H, m), 3.48(3H, s), 3.69-3.73(2H, m), 4.87(1H, d, J=8.2Hz), 6.56-6.66(4H, m), 6.96(1H, s), 8.24(1H, d, J=4.2Hz), 9.00(1H, d, J=4.2Hz), 9.30(1H, s)(DMSO-d6)	406

	1 51 1 62/24> 0 00 0 00/24	
YB262	1.51-1.62(2H, m), 2.02-2.08(2H, m), 3.10-3.18(2H, m), 3.42(3H, s), 3.46-3.50(1H, m), 3.67(3H, s), 3.69-3.73(2H, m), 5.56(1H, d, J=8.2Hz), 6.10-6.24(3H, m), 6.94-6.99(2H, m), 8.24(1H, d, J=4.2Hz), 9.00(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO-d6)	393
YB263	1.48-1.58(2H, m), 2.01-2.08(2H, m), 3.08-3.17(2H, m), 3.40(3H, s), 3.41-3.43(1H, m), 3.63(3H, s), 3.69-3.73(2H, m), 5.09(1H, d, J=8.2Hz), 6.59(2H, d, J=7.2Hz), 6.72(2H, d, J=7.2Hz), 6.96(1H, s), 8.24(1H, d, J=4.2Hz), 9.01(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO-d6)	393
YB264	1.56-1.69(2H, m), 2.04-2.08(2H, m), 3.08-3.15(2H, m), 3.42(3H, s), 3.55-3.83(6H, m), 4.57(1H, d, J=8.2Hz), 6.53-6.90(4H, m), 7.03(1H, s), 8.25(1H, d, J=4.2Hz), 9.00(1H, d, J=4.2Hz), 9.30(1H, s)(DMSO-d6)	393
YB265	1.66-1.87(3H, m), 1.91-1.99(1H, m), 2.93-3.08(3H, m), 3.43(3H, s), 3.72-3.78(2H, m), 6.97(1H, s), 7.34(2H, d, J=5.7 Hz), 7.54(2H, d, J=5.4 Hz), 8.18(1H, dd, J=5.4, 1.2 Hz), 8.99(1H, d, J=5.1 Hz), 9.29(1H, d, J=0.9 Hz)(DMSO)	426
YB266	1.71-1.91(4H, m), 2.41-2.45(2H, m), 2.53-2.56(4H, m), 2.93-3.00(3H, m), 3.08-3.10(4H, m), 3.43(3H, s), 3.50-3.54(2H, m), 3.67-3.71(2H, m), 4.42-4.46(1H, m), 6.90(2H, d, J=7.2Hz), 6.96(1H, s), 7.19(2H, d, J=7.2Hz), 8.17(1H, dd, J=1.2, 4.2Hz), 8.99(1H, d, J=4.2Hz), 9.29(1H, d, J=1.2Hz)(DMSO-d6)	476
YB267	1.70-1.94(4H, m), 2.86(6H, s), 2.89-2.90(3H, m), 3.43(3H, s), 3.66-3.77(2H, m), 6.71(2H, d, J=7.2Hz), 6.96(1H, s), 7.15(2H, d, J=7.2Hz), 8.17(1H, d, J=4.2Hz), 8.99(1H, d, J=4.2Hz), 9.28(1H, s)(DMSO-d6)	391
YB268	1.72-1.84(4H, m), 2.89-3.08(7H, m), 3.43(3H, s), 3.67-3.77(6H, m), 6.90-6.96(3H, m), 7.21(2H, d, J=7.2Hz), 8.17(1H, d, J=4.2Hz), 8.99(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO-d6)	433
YB269	1.51-1.83(10H, m), 2.87-3.00(3H, m), 3.07-3.10(4H, m), 3.43(3H, s), 3/68-3.77(2H, m), 6.89(2H, d, J=7.2Hz), 6.96(1H, s), 7.17(2H, d, J=7.2Hz), 8.18(1H, d, J=4.2Hz), 8.99(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO-d6)	431
YB270	1.72-1.90(4H, m), 2.21(3H, s), 2.42-2.45(4H, m), 2.87-2.97(3H, m), 3.08-3.10(4H, m), 3.43(3H, s), 3.67-3.77(2H, m), 6.90(2H, d, J=7.2Hz), 6.96(1H, s), 7.19(2H, d, J=7.2Hz), 8.17(1H, d, J=4.2Hz), 8.98(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO-d6)	446
YB271	1.63-1.95(6H, m), 2.04-2.08(2H, m), 2.61-2.65(2H, m), 2.69(6H, s), 2.86-3.00(3H, m), 3.13-3.16(1H, m), 3.43(3H, s), 3.67-3.81(4H, m), 6.92-6.96(3H, m), 7.20(2H, d, J=7.2Hz), 8.17(1H, d, J=4.2Hz), 9.00(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO-d6)	474

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YB272	1.72-1.83(4H, m), 2.89-3.09(7H, m), 3.42(3H, s), 3.54-3.57(4H, m), 3.67-3.77(2H, m), 5.11(2H, s), 6.91-6.96(3H, m), 7.21(2H, d, J=7.2Hz), 7.26-7.44(5H, m), 8.17(1H, d, J=4.2Hz), 8.99(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO-d6)	566
YB273	1.57-1.63(2H, m), 1.82-1.89(2H, m), 2.51-2.98(13H, m), 3.41(3H, s), 3.76-3.80(3H, m), 6.70(1H, s), 8.22(1H, d, J=4.2Hz), 9.01(1H, d, J=4.2Hz), 9.30(1H, s)(DMSO-d6)	370
YB274	1.52-1.63(2H, m), 1.84-1.90(2H, m), 2.36-2.42(11H, m), 2.86-2.94(2H, m), 3.40(3H, s), 3.49-3.53(2H, m), 3.73-3.77(2H, m), 4.40-4.43(1H, m), 6.96(1H, s), 8.22(1H, d, J=4.2Hz), 9.01(1H, d, J=4.2Hz), 9.30(1H, s)(DMSO-d6)	400
YB275	1.72-1.92(4H, m), 2.80-3.02(11H, m), 3.28-3.30(1H, m), 3.43(3H, s), 6.88(2H, d, J=7.2Hz), 6.96(1H, s), 7.18(2H, d, J=7.2Hz), 8.18(1H, d, J=4.2Hz), 8.99(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO-d6)	432
YB276	1.06-1.38(5H, m), 1.61-1.92(9H, m), 2.77-2.91(3H, m), 3.03-3.12(1H, m), 3.42(3H, s), 3.64-3.75(2H, m), 5.27(1H, d, J=8.2Hz), 6.52(2H, d, J=7.2Hz), 6.96(1H, s), 7.02(2H, d, J=7.2Hz), 8.17(1H, d, J=4.2Hz), 8.99(1H, d, J=4.2Hz), 9.28(1H, s)(DMSO-d6)	445
YB277	1.76-1.97(4H, m), 2.97-3.10(5H, m), 3.47(3H, s), 3.73-3.76(2H, m), 3.88-3.93(2H, m), 6.71(1H, dd, J=7.2, 7.3Hz), 6.96-7.34(8H, m), 8.19(1H, d, J=4.2Hz), 9.00(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO-d6)	465
YB278	1.10-1.15(1H, m), 1.32-1.47(4H, m), 1.64-1.82(9H, m), 2.69(3H, s), 2.82-2.97(3H, m), 3.42(3H, s), 3.54-3.75(3H, m), 6.73(2H, d, J=7.2Hz), 6.95(1H, s), 7.13(2H, d, J=7.2Hz), 8.16(1H, d, J=4.2Hz), 8.98(1H, d, J=4.2Hz), 9.28(1H, s)(DMSO-d6)	459

Test Example: Inhibitory activity of the medicament of the present invention against P-GS1 phosphorylation by bovine cerebral TPK1

A mixture containing 100 mM MES-sodium hydroxide (pH 6.5), 1 mM magnesium acetate, 0.5 mM EGTA, 5 mM β -mercaptoethanol, 0.02% Tween 20, 10% glycerol, 12 μ g/ml P-GS1, 41.7 μ M [γ -32P] ATP (68 kBq/ml), bovine cerebral TPK1 and a compound shown in Table (a final mixture contained 1.7% DMSO deriving from a solution of a test compound prepared in the presence of 10% DMSO) was used as a reaction system. The phosphorylation was started by adding ATP, and the

reaction was conducted at 25°C for 2 hours, and then stopped by adding 21% perchloric acid on ice cooling. The reaction mixture was centrifuged at 12,000 rpm for 5 minutes and adsorbed on P81 paper (Whatmann), and then the paper was washed four times with 75 mM phosphoric acid, three times with water and once with acetone. The paper was dried, and the residual radioactivity was measured using a liquid scintillation counter. The results are shown in the table below. The test compound markedly inhibited the P-GS1 phosphorylation by TPK1. The results strongly suggest that the medicaments of the present invention inhibit the TPK1 activity, thereby suppress the A β neurotoxicity and the PHF formation, and that the medicaments of the present invention are effective for preventive and/or therapeutic treatment of Alzheimer disease and the above-mentioned diseases.

Table 6

Compound No.	IC ₅₀
XA361	0.018 μ M
XB80	0.23 μ M
YA0864	0.216 μ M
YB257	0.014 μ M

Formulation Example

(1) Tablets

The ingredients below were mixed by an ordinary method and compressed by using a conventional apparatus.

Compound of Example 1	30 mg
Crystalline cellulose	60 mg
Corn starch	100 mg
Lactose	200 mg
Magnesium stearate	4 mg

(2) Soft capsules

The ingredients below were mixed by an ordinary method and filled in soft capsules.

Compound of Example 1	30 mg
Olive oil	300 mg
Lecithin	20 mg

Industrial Applicability

The compounds of the present invention have TPK1 inhibitory activity and are useful as an active ingredient of a medicament for preventive and/or therapeutic treatment of diseases caused by abnormal advance of TPK1 such as neurodegenerative diseases (e.g. Alzheimer disease) and the above-mentioned diseases.

CLAIMS

1. A pyrimidone derivative represented by formula (I) or a salt thereof, or a solvate thereof or a hydrate thereof:

$$(X)_{m} \xrightarrow{N}_{R} (I)$$

wherein Q represents CH or nitrogen atom;

R represents a C_1 - C_{12} alkyl group which may be substituted; the ring of:

represents piperazine ring or piperidine ring;

each X independently represents

 $X^1 - X^2 -$

wherein X¹ represents an oxo group; a C¹-C² alkyl group which may be substituted; a C³-C² cycloalkyl group which may be substituted; an optionally partially hydrogenated C²-C¹0 aryl ring which may be substituted; an indan ring which may be substituted; an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and having 5 to 10 ring-constituting atoms in total; an aralkyloxy group; a group represented by ¬N(Ra)(Rb) wherein Ra and Rb are the same or different and each is hydrogen, a C¹-C² alkyl group which may be substituted, an aralkyl group which may be substituted, an

aryl group which may be substituted, C_1 - C_8 alkylcarbonyl group which may be substituted,

C3-C8 cycloalkylcarbonyl group which may be substituted, aralkycarbonyl group which may be substituted, C6-C10 arylcarbonyl group which may be substituted, C1-C8 alkysulfonyl group which may be substituted, C3-C8 cycloalkylsulfonyl group which may be substituted, aralkysulfonyl group which may be substituted, C6-C10 arylsulfonyl group which may be substituted, C1-C8 alkyloxycarbonyl group which may be substituted, C3-C8 cycloalkyloxycarbonyl group which may be substituted, aralkyoxycarbonyl group which may be substituted, aralkyoxycarbonyl group which may be substituted, C6-C10 aryloxycarbonyl group which may be substituted, aminocarbonyl,

N-C1-C8 alkylaminocarbonyl group which may be substituted,

N, N'-C1-C8 dialkylaminocarbonyl group which may be substituted,

N-C1-C8 alkyl-N'-C3-C8 cycloalkylaminocarbonyl group which may be substituted,

N-C1-C8 alkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C1-C8 alkyl-N'-C6-C10 arylaminocarbonyl group which may be substituted,

C3-C8 cycloalkylaminocarbonyl group which may be substituted,

N,N'-C3-C8 dicycloalkylaminoycarbonyl group which may be substituted,

N-C3-C8 cycloalkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C₃-C₈ cycloalkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted, aralkylaminocarbonyl group which may be substituted,

N,N'-diaralkylaminocarbonyl group which may be substituted,

N-aralkyl- N'-C6-C10 arylaminocarbonyl group which may be substituted,

C6-C10 arylaminocarbonyl group which may be substituted,

N,N'-C6-C10 diarylaminocarbonyl group which may be substituted,

or an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and having 5 to 10 ring-constituting atoms in total; or Ra and Rb together with the adjacent nitrogen atom form a 4 to 7 membered heterocyclic ring which may further contain 1 to 4 groups selected from an oxygen atom, a sulfur atom, N-Rc (wherein Rc represents a hydrogen atom, a C1-C4 alkyl group which may be substituted, an aralkyl group which may be substituted, C3-C8 cycloalkyl group which may be substituted or an aryl group which may be substituted, C₁-C₈ alkylcarbonyl group which may be substituted, C₃-C₈ cycloalkylcarbonyl group which may be substituted, aralkycarbonyl group which may be substituted, C₆-C₁₀ arylcarbonyl group which may be substituted, C₁-C₈ alkysulfonyl group which may be substituted. C₃-C₈ cycloalkylsulfonyl group which may be substituted, aralkysulfonyl group which may be substituted, C₆-C₁₀ arylsulfonyl group which may be substituted, C₁-C₈ alkyloxycarbonyl group which may be substituted, C₃-C₈ cycloalkyloxycarbonyl group which may be substituted, aralkyoxycarbonyl group which may be substituted, C₆-C₁₀ aryloxycarbonyl group which may be substituted, aminocarbonyl,

N-C₁-C₈ alkylaminocarbonyl group which may be substituted,

N, N'-C₁-C₈ dialkylaminocarbonyl group which may be substituted,

N-C₁-C₈ alkyl-N'-C₃-C₈ cycloalkylaminocarbonyl group which may be substituted,

N-C₁-C₈ alkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C₁-C₈ alkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted,

C₃-C₈ cycloalkylaminocarbonyl group which may be substituted,

N,N'-C3-C8 dicycloalkylaminoycarbonyl group which may be substituted,

N-C₃-C₈ cycloalkyl-N'-aralkylaminocarbonyl group which may be substituted,
N-C₃-C₈ cycloalkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted,
aralkylaminocarbonyl group which may be substituted,
N,N'-diaralkylaminocarbonyl group which may be substituted,
N-aralkyl- N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted,
C₆-C₁₀ arylaminocarbonyl group which may be substituted,
N,N'-C₆-C₁₀ diarylaminocarbonyl group which may be substituted,
or an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and having 5 to 10 ring-constituting atoms in total),

a carbonyl group, a sulfinyl group or a sulfonyl group in the ring, and said 4 to 7 membered heterocyclic ring may optionally be fused with an aryl group which may be substituted;

X² represents a bond, a carbonyl group, a sulfinyl group, a sulfonyl group, an oxygen atom, a sulfur atom, a C¹-C⁴ alkylene group which may be substituted or N-Rd (Rd represents a hydrogen atom, a C¹-C⁴ alkyl group which may be substituted, an aralkyl group which may be substituted, C³-C³ cycloalkyl group which may be substituted or an aryl group which may be substituted,
C¹-C³ alkylcarbonyl group which may be substituted,
C³-C³ cycloalkylcarbonyl group which may be substituted,
aralkycarbonyl group which may be substituted,
C¹-C³ alkysulfonyl group which may be substituted,
C¹-C³ alkysulfonyl group which may be substituted,
C³-C³ cycloalkylsulfonyl group which may be substituted,
C³-C³ cycloalkylsulfonyl group which may be substituted,
C³-C¹ arylsulfonyl group which may be substituted,

C₁-C₈ alkyloxycarbonyl group which may be substituted,
C₃-C₈ cycloalkyloxycarbonyl group which may be substituted,
aralkyoxycarbonyl group which may be substituted,
C₆-C₁₀ aryloxycarbonyl group which may be substituted,
aminocarbonyl,

N-C1-C8 alkylaminocarbonyl group which may be substituted,

N, N'-C1-C8 dialkylaminocarbonyl group which may be substituted,

N-C₁-C₈ alkyl-N'-C₃-C₈ cycloalkylaminocarbonyl group which may be substituted,

N-C1-C8 alkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C₁-C₈ alkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted,

C₃-C₈ cycloalkylaminocarbonyl group which may be substituted,

N,N'-C3-C8 dicycloalkylaminoycarbonyl group which may be substituted,

N-C₃-C₈ cycloalkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C₃-C₈ cycloalkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted, aralkylaminocarbonyl group which may be substituted,

N,N'-diaralkylaminocarbonyl group which may be substituted,

N-aralkyl- N'-C6-C10 arylaminocarbonyl group which may be substituted,

C₆-C₁₀ arylaminocarbonyl group which may be substituted,

N,N'-C6-C10 diarylaminocarbonyl group which may be substituted,

or an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and having 5 to 10 ring-constituting atoms in total);

m represents an integer of 1 to 3;

each Y independently represents a halogen atom, a hydroxy group, a cyano group, Y¹-Y³- wherein Y¹ represents a C₁-C₈ alkyl group which may be substituted; a C₃-C₈ cycloalkyl group which may be substituted or a C₆-C₁₀ aryl ring which may be substituted; Y³ represents a carbonyl group, a sulfinyl group, a sulfonyl group, an oxygen atom, a sulfur atom, a C₁-C₄ alkylene group which may be substituted or

N-Re (Re represents a hydrogen atom, a C1-C4 alkyl group which may be substituted, an aralkyl group which may be substituted, C3-C8 cycloalkyl group which may be substituted or an aryl group which may be substituted, C1-C8 alkylcarbonyl group which may be substituted, C3-C5 cycloalkylcarbonyl group which may be substituted, aralkycarbonyl group which may be substituted. C₆-C₁₀ arylcarbonyl group which may be substituted. C₁-C₈ alkysulfonyl group which may be substituted. C₃-C₈ cycloalkylsulfonyl group which may be substituted, aralkysulfonyl group which may be substituted, C6-C10 arylsulfonyl group which may be substituted, C₁-C₈ alkyloxycarbonyl group which may be substituted, C3-C8 cycloalkyloxycarbonyl group which may be substituted, aralkyoxycarbonyl group which may be substituted, C6-C10 aryloxycarbonyl group which may be substituted, aminocarbonyl, N-C₁-C₈ alkylaminocarbonyl group which may be substituted, N, N'-C₁-C₈ dialkylaminocarbonyl group which may be substituted, N-C₁-C₈ alkyl-N'-C₃-C₈ cycloalkylaminocarbonyl group which may be substituted. N-C₁-C₈ alkyl-N'-aralkylaminocarbonyl group which may be substituted. N-C1-C8 alkyl-N'-C6-C10 arylaminocarbonyl group which may be substituted,

C₃-C₈ cycloalkylaminocarbonyl group which may be substituted,
N,N'-C₃-C₈ dicycloalkylaminoycarbonyl group which may be substituted,
N-C₃-C₈ cycloalkyl-N'-aralkylaminocarbonyl group which may be substituted,
N-C₃-C₈ cycloalkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted,
aralkylaminocarbonyl group which may be substituted,

N,N'-diaralkylaminocarbonyl group which may be substituted,
N-aralkyl- N'-C6-C10 arylaminocarbonyl group which may be substituted.

C₆-C₁₀ arylaminocarbonyl group which may be substituted,

N,N'-C₆-C₁₀ diarylaminocarbonyl group which may be substituted,

or an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and having 5 to 10 ring-constituting atoms in total),

n represents an integer of 0 to 8;

when X and Y or two Y groups are attached on the same carbon atom, they may combine to each other to form a C_2 - C_6 alkylene group; and when m is 1, n is 0, and X is X^1 -CO-,

- (1) X does not bind to 3-position of unsubstituted 1-piperazinyl group or does not bind to 3-position of a 4-alkyl-1-piperazinyl group; or
- (2) X does not bind to 3-position or 4-position of non-substituted 1-piperidinyl group.
- 2. The pyrimidone derivative or the salt thereof, or the solvate thereof or the hydrate thereof according to claim 1 having the following formula(II)

$$(X)_{p}$$

$$(X)_{q}$$

$$(Y)_{r}$$

$$(X)_{q}$$

$$(Y)_{r}$$

$$(X)_{q}$$

$$(Y)_{r}$$

$$(X)_{q}$$

$$(Y)_{r}$$

wherein Q, R, X and Y are the same as those defined in claim 1; p is 0 or 1; q is 0 or 1; r is an integer of 0 to 6; p+q is 1 or 2; and \mathbb{Z} represents N or $\mathbb{C}\mathbb{Z}^1$ wherein \mathbb{Z}^1 represents hydrogen atom or Y.

3. The pyrimidone derivative or the salt thereof, or the solvate thereof or the hydrate thereof according to claim 2, wherein R is a C₁-C₃ alkyl group which

may be substituted by a C3-C8 cycloalkyl group.

4. The pyrimidone derivative or the salt thereof, or the solvate thereof or the hydrate thereof according to claim 3, wherein R is methyl group or ethyl group; Y is in 3-, 4- or 5-position of the piperazine ring or the piperidine ring; p+q is 1; and r is an integer of 0 to 3.

- 5. The pyrimidone derivative or the salt thereof, or the solvate thereof or the hydrate thereof according to claim 4, wherein X is a C₁-C₈ alkyl group which may be substituted or a C₆-C₁₀ aryl ring which may be substituted; Y is a C₁-C₆ alkyl group which may be substituted; p is 1; q is 0; r is an integer of 0 to 3; and Z is N or CH.
- 6. The pyrimidone derivative or the salt thereof, or the solvate thereof or the hydrate thereof according to claim 5, wherein X is a benzene ring which may be substituted, a benzyl group which may be substituted; Y is a methyl group which may be substituted; Z is N and r is 0 or 1.
- 7. The pyrimidone derivative or the salt thereof, or the solvate thereof or the hydrate thereof according to claim 4, wherein X is a benzene ring which may be substituted, a benzyl group which may be substituted, a benzoyl group which may be substituted; Y is a methyl group which may be substituted; Z is N and p is 0.
- 8. The pyrimidone derivative or the salt thereof, or the solvate thereof or the hydrate thereof according to claim 4, wherein X is a C₁-C₈ alkyl group substituted by a benzene ring which may be substituted or a benzene ring which may be substituted; Y is a hydroxy group, a cyano group, or Y¹-CO- wherein Y¹ is a C₁-C₈ alkyl group; Z is CH or C-Y and r is 0 or 1.
- 9. The pyrimidone derivative or the salt thereof, or the solvate thereof or the hydrate thereof according to claim 8, wherein X is a benzyl group which may be substituted or a benzene ring which may be substituted; Y is a hydroxy group, a cyano group, or an acetyl group; Z is CH or C-Y and r is 0 or 1.

10. A pyrimidone derivative which is selected from the group consisting of: 2-(3-Phenylpiperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(4-Fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(3-Fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(2-Fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(4-Chlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; (S)-2-(3-(4-Chlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4one; (R)-2-(3-(4-Chlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4one; 2-(3-(3-Chlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(2-Chlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(4-Bromophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(3-Bromophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(2-Bromophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(4-Methylphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(3-Methylphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(2-Methylphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(4-Cyanophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(3-Cyanophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(2-Cyanophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;2-(3-(4-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(3-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(2-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(2-Ethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(5-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3Hpyrimidin-4-one;

2-(3-(4-Fluoro-3-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3<math>H-1

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pyrimidin-4-one;
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- 2-(3-(4-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- (S)-2-(3-(4-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- (R)-2-(3-(4-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(4-Chloro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(4-Fluoro-2-methylphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(2-Fluoro-6-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(5-Bromo-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- 2-(3-(2-Bromo-4-fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(2-Chloro-6-fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(2,4-Difluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(2,6-Difluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(2,6-Dichlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(2,4-Dimethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(3,4-Dimethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-

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4-one;
2-(3-(2,5-Dimethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-
4-one;
2-(3-(2,6-Dimethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-
4-one;
2-(3-(2,4-Difluoro-6-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-
pyrimidin-4-one;(1034)
2-(3-(5-Cyano-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-
pyrimidin-4-one;
2-(3-(4-Cyano-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-
pyrimidin-4-one;
2-(3-(1-Naphthyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
2-(3-(2-Naphthyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
2-(3-(2,3-Dihydrobenzofuran-7-yl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-
pyrimidin-4-one;
2-(3-(Benzofuran-2-yl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
(S)-2-(3-(Benzofuran-2-yl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-
one;
2-(3-(4-(Pyrrolidin-1-yl-methyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-
pyrimidin-4-one;
pyrimidin-4-one;
2-(3-(2-methoxy-4-(pyrrolidin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-
3H-pyrimidin-4-one;
2-(3-(2-methoxy-5-(pyrrolidin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-
3H-pyrimidin-4-one;
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2-(3-(4-(Phenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;

2-(3-(4-(4-Fluorophenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-

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pyrimidin-4-one;
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- 2-(3-(4-(4-Methoxyphenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- 2-(3-(4-(2-Methoxyphenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- 2-(3-(4-(Morpholin-4-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- $2-(3-(4-(4-\text{Methylpiperazin-1-yl})\text{phenyl})\text{piperazin-1-yl})-3-\text{methyl-}6-(4-\text{pyridyl})-3H-\\ \text{pyrimidin-}4-\text{one};$
- $\hbox{2-}(4-Phenylpiperazin-1-yl)-3-methyl-6-(4-pyridyl)-3$H-pyrimidin-4-one;$
- 2-(4-Benzylpiperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(4-Benzoylpiperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(4-(1,2-Benzisothiazol-3-yl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(4-Methyl-3-phenylpiperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 3*H*-pyrimidin-4-one;
- (S)-2-(3-(4-Fluoro-2-methoxyphenyl)-4-methylpiperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- (R)-2-(3-(4-Fluoro-2-methoxyphenyl)-4-methylpiperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(4-Acetyl-3-(4-fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(4-Benzyl-3-(4-fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(4-Benzyl-3-(ethoxycarbonyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- $2-(4-\mathrm{methyl}-3-(1-\mathrm{naphthyl})\mathrm{piperazin}-1-\mathrm{yl})-3-\mathrm{methyl}-6-(4-\mathrm{pyridyl})-3H-\mathrm{pyrimidin}-4-(4-\mathrm{methyl}-3)$

one;

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2-(5,5-Dimethyl-3-(2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
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- 2-(3-Phenylpiperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(4-Fluorophenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(3-Fluorophenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(2-Fluorophenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(4-Chlorophenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(4-Bromophenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(4-Methoxyphenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(3-Methoxyphenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(2-Methoxyphenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(4-((Pyrrolidin-1-yl)methyl)phenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-

pyrimidin-4-one;

- (S)-2-(3-(4-(Pyrrolidin-1-yl-methyl)phenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- (R)-2-(3-(4-(Pyrrolidin-1-yl-methyl)phenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-Hydroxy-3-phenylpiperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-Phenylpiperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(4-Fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(3-Fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(2-Fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(4-Chlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-pyrimidyl)-3H-pyrimidyl-4-pyrimidyl-3H-pyrimidyl-4-pyrimidy

one;

- 2-(3-(3-Chlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(3-(2-Chlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-

one;

- 2-(3-(4-Bromophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one; 2-(3-(3-Bromophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one; 2-(3-(2-Bromophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one; 2-(3-(4-Cyanophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one; 2-(3-(3-Cyanophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one; 2-(3-(4-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one; 2-(3-(4-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(3-(3-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(2-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(2-Ethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- $2\text{-}(3\text{-}(6\text{-Fluoro-}2\text{-methoxyphenyl}) piperazin-1\text{-yl})-3\text{-methyl-}6\text{-}(4\text{-pyrimidyl})-3H-\\ pyrimidin-4\text{-one};$
- 2-(3-(5-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(4-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- (S)-2-(3-(4-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- (R)-2-(3-(4-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(4-Chloro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(5-Bromo-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-

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pyrimidin-4-one;
2-(3-(2,6-Dichlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-
one;
2-(3-(2,4-Dimethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-
one;
2-(3-(3,4-Dimethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-
pyrimidin-4-one;
2-(3-(2,5-Dimethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-
pyrimidin-4-one;
2-(3-(2,6-Dimethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-
pyrimidin-4-one;
2-(3-(2,4-Difluoro-6-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-
pyrimidin-4-one;
2-(3-(1-Naphthyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
2-(3-(2-Naphthyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
2-(3-(2,3-Dihydrobenzofuran-7-yl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-
pyrimidin-4-one;
2-(3-(Benzofuran-2-yl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-
one;
2-(3-(4-(Pyrrolidin-1-yl-methyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-
3H-pyrimidin-4-one;
2-(3-(4-(Pyrrolidin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-
pyrimidin-4-one;
2-(3-(2-methoxy-4-(pyrrolidin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-
pyrimidyl)-3H-pyrimidin-4-one;
2-(3-(2-methoxy-5-(pyrrolidin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-
pyrimidyl)-3H-pyrimidin-4-one;
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2-(3-(4-(Phenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-

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one;
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2-(3-(4-(4-Fluorophenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;

2-(3-(4-(4-Methoxyphenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;

2-(3-(4-(2-Methoxyphenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;

2-(3-(4-(Morpholin-4-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;

2-(3-(4-(4-Methylpiperazin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;

2-(3-(4-Fluoro-2-methoxyphenyl)-4-methylpiperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;

(S)-2-(3-(4-Fluoro-2-methoxyphenyl)-4-methylpiperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;

(R)-2-(3-(4-Fluoro-2-methoxyphenyl)-4-methylpiperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;

2-(4-Acetyl-3-(4-fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;

2-(4-Benzyl-3-(4-fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;

2-(4-(4-Fluorophenyl) piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-<math>3H-pyrimidin-4-one;

2-(4-Cyano-4-phenylpiperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;

2-(4-(6-Fluorobenofuran-3-yl)piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;

2-(3-(Benzoisoxazol-3-yl)piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;

(S) - 2 - (3 - (Benzoisoxazol - 3 - yl)piperidin - 1 - yl) - 3 - methyl - 6 - (4 - pyrimidyl) - 3H - (4 - pyrimi

pyrimidin-4-one;

(R)-2-(3-(Benzoisoxazol-3-yl)piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;

2-(3-(6-Fluorobenzoisoxazol-3-yl)piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;

2-(4-(6-Fluorobenzoisoxazol-3-yl)piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;

2-(4-(5-Methylbenzofuran-3-yl)piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one; and

2-(4-(6-Fluorobenzothiophene-3-yl)piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one

or a salt thereof, or a solvate thereof or a hydrate thereof.

- 11. A medicament comprising as an active ingredient a substance selected from the group consisting of the pyrimidone derivative represented by formula (I) and a salt thereof, and a solvate thereof and a hydrate thereof according to claim 1.
- 12. A tau protein kinase 1 inhibitor selected from the group consisting of the pyrimidone derivative represented by formula (I) and a salt thereof, and a solvate thereof and a hydrate thereof according to claim 1.
- 13. The medicament according to claim 11 which is used for preventive and/or therapeutic treatment of a disease caused by tau protein kinase 1 hyperactivity.
- 14. The medicament according to claim 11 which is used for preventive and/or therapeutic treatment of a neurodegenerative disease.
- 15. The medicament according to claim 14, wherein the neurodegenerative disease is selected from the group consisting of Alzheimer disease, ischemic cerebrovascular accidents, Down syndrome, cerebral bleeding due to cerebral amyloid angiopathy, progressive supranuclear palsy, subacute sclerosing panencephalitic parkinsonism, postencephalitic parkinsonism, pugilistic

encephalitis, Guam parkinsonism-dementia complex, Lewy body disease, Pick's disease, corticobasal degeneration, frontotemporal dementia, vascular dementia, traumatic injuries, brain and spinal cord trauma, peripheral neuropathies, retinopathies, and glaucoma.

16. The medicament according to claim 11, wherein the disease is selected from the group consisting of non-insulin dependent diabetes, obesity, manic depressive illness, schizophrenia, alopecia, breast cancer, non-small cell lung carcinoma, thyroid cancer, T or B-cell leukemia, and a virus-induced tumor.

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07D239/47 C07D401/14 C07D405/14 C07D409/14 C07D413/14 C07D417/14 C07D403/14 A61K31/513 A61K31/5377 A61P25/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{C07D} & \mbox{A61K} \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BEILSTEIN Data, WPI Data, PAJ, CHEM ABS Data

Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
EP 1 136 482 A (SANOFI SYNTHELABO; MITSUBISHI TOKYO PHARMACEUTICA (JP)) 26 September 2001 (2001-09-26) cited in the application paragraphs '0002!, '0006!; example 38; tables 1,2,4,8-12	1-16
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